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Installation Commander's Support Tool for Hazardous Waste Disposal



Construction Engineering Research Laboratory

# **An Analysis of Army Hazardous Waste Disposal Cost Data**

JUN 0 4 1991

by Byung J. Kim Roy H. Reuter Rob T. Williams Charles R. Tanner Chai S. Gee John T. Bandy

In FY90 the Army decentralized responsibility for, and funding of, hazardous waste (HW) management and disposal. Army waste managers need reliable disposal cost information, but no accurate, complete source is readily available. This study is the Army's first effort to compile and analyze representative Army HW disposal cost data. Disposal quantities, unit costs, and total costs were calculated and analyzed from data provided by the Defense Reutilization and Marketing Service (DRMS). Also, information about leading factors in HW disposal costs was collected from private-sector waste management contractors. Integrated Disposal Management System data from DRMS was also analyzed to summarize DRMS reutilization, transfer, donation, and sales activities related to HW.

Analyzing disposal data alone cannot provide all information the Army needs to effectively manage HW and associated costs. Data on waste generation are required before attempting to reduce costs by minimizing waste. Also, data covering longer periods must be analyzed to reveal trends not discovered in this first-time effort.

Recommendations are made for making Army HW databases more useful for tracking wastes and disposal costs. Also, an indepth study is recommended to correlate DRMS disposal data with waste generation data to improve the Army's HW management abilities.

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#### **FOREWORD**

This study was conducted for Army Environmental Office, Office of the Chief of Engineers (OCE), under MIPR 1409, March 1989; Work Unit JX9, "Installation Commander's Support Tool for Hazardous Waste Disposal." The technical monitor was Saralynn Bunch, ENVR-EH.

The research was performed by the Environmental Division (EN) of the U.S. Army Construction Engineering Research Laboratory (USACERL). The principal investigator was Dr. Byung Kim. Appendix K and other portions of the report were provided by Life Systems, Inc., Cleveland, Ohio. Coauthors Dr. Roy H. Reuter, Rob T. Williams, and Charles R. Tanner are employees of Life Systems, Inc. Dr. Edward W. Novak is Acting Chief of EN. The USACERL technical editor was Gordon L. Cohen, Information Management Office.

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#### AN ANALYSIS OF ARMY HAZARDOUS WASTE DISPOSAL COST DATA

#### 1 INTRODUCTION

## **Background**

Effective Fiscal Year (FY) 90, funding for hazardous waste disposal was decentralized, requiring either U.S. Army Major Commands (MACOMs), Major Subordinate Commands (MSCs), or installations to assume the disposal costs of their hazardous wastes. In addition, installations can use disposal means other than the Defense Reutilization and Marketing Service (DRMS) if there is a justifiable reason. These changes are part of the Army's effort to minimize the generation of hazardous waste by including disposal costs with production/use costs.

Hazardous waste disposal costs are complicated by numerous factors, such as quantity and type of waste, timing, treatment, storage, and disposal (TSD) facility availability and costs, contracting procedures, and regulatory requirements. As they assume more responsibility for managing their own hazardous wastes, installation commanders, Army hazardous waste managers, and contracting personnel need reliable hazardous waste disposal cost information. The problem is that there is no readily available, completely accurate source of such information.

The Army's best existing records on hazardous waste disposal are found in the DRMS's database of Contractor Line Item Numbers (CLINs), which categorize hazardous waste on the basis of type, amount, container, and other factors. These records are valuable for establishing the foundations for a reliable disposal cost database, but their use is limited in their current form. Through the fault of no one, for example, many CLINs are vague or comprise multiple miscellaneous substances. The CLIN system is an attempt to create an orderly catalog of hazardous wastes, but the generation and disposal of waste is not by nature a standardized and orderly activity. Attempts to condense and fine-tune the CLIN system have resulted in the deletion or consolidation of many items. Consequently, certain CLINs no longer accurately represent the contents of certain packages of waste.

However, cost information is essential to make cost-effective and environmentally proactive hazardous waste management decisions. Therefore, it is necessary to analyze existing DRMS hazardous waste disposal cost data based on CLINs to understand how much money the Army has spent for hazardous waste disposal, how the costs were broken down, how effective DRMS Reutilization, Transfer, Donation, and Sales (RDTS) activities have been, and what factors affect the availability and cost of TSD services.

## Objective

The objective of this study was to compile and analyze representative Army hazardous waste disposal cost data, and to provide this information and analysis to Army environmental program managers.

## Approach

DRMS hazardous waste disposal contract data for FY88 were analyzed for each CLIN. The hazardous waste disposal data for TRADOC and FORSCOM installations were compared with that for AMC. This distinction was made because AMC's activities (e.g., manufacture of munitions) lead it to produce the majority of Army-generated hazardous waste. AMC processes some of its hazardous waste through DRMS, but most of it is treated and disposed of by the AMC's contractors. The impact of disposal decentralization (and, therefore, this report) focuses on TRADOC and FORSCOM installations. In this report, AMC hazardous waste disposal data applies only to the wastes disposed of through DRMS. AMC data was provided for any additional insights it could offer.

In addition to CLIN records, reutilization, transfer, donation, and sales (RTDS) data from DRMS was also analyzed. This study also identified hazardous waste TSD facilities that may be available for use by the Army, and interviewed TSD facility personnel to determine how these companies set their rates. An analysis of the factors that influence disposal changes by commercial TSD facilities was prepared.

### Scope

This report was based on the analysis of FY88 hazardous waste disposal cost data that the DRMS provided in FY89. No attempt was made to validate or alter the data. This cost data will be regarded as historical information and the direct use of this cost data for estimating future disposal costs was not recommended.

## Mode of Technology Transfer

This report will be provided to Army Environmental Managers as a reference on hazardous waste disposal costs in FY88.

<sup>\*</sup>TRADOC = U.S. Army Training and Doctrine Command; FORSCOM = U.S. Army Forces Command; AMC = U.S. Army Materiel Command.

#### 2 ARMY HAZARDOUS WASTE DISPOSAL COST DATA

#### **Database Analyses of Disposal Costs**

Computerized hazardous waste cost data were provided by DRMS in two batches. The first batch included all Army-generated wastes from installations in the Continental United States (CONUS) for the first three quarters of FY88. The second batch consisted of data for the last quarter of FY88 and was provided after the initial analysis was completed. Cost data were separated into two files, depending on whether they were from AMC or non-AMC pickup points. Both of the resulting database files were then analyzed.

For the data for the first three quarters of FY88, cost and weight totals were evaluated for individual waste type by using values associated with the CLIN assigned by DRMS. A CLIN-by-CLIN analysis was then performed to determine the number of transactions by individual number, the maximum, minimum, and average unit cost of each CLIN; the total cost associated with each CLIN and the total weight of waste for each CLIN. Tables for the top 20 individual CLINs for both AMC and non-AMC installations were identified based on the number of transactions, weight, and cost data. Using data for all of FY88, cost, quantity, and number-of-transaction summary tables were generated for hazardous waste categories of high interest and for the 22 DRMS categories shown in Appendix A, Table A1.

In addition to the computerized cost data, DRMS provided excerpts of all active waste disposal contracts for CONUS Army facilities. Many of these contracts also service non-Army activities (e.g., Air Force, Navy) because contracts are typically written to provide services to all Defense Reutilization and Marketing Offices (DRMOs) within a geographical area. Typical DRMS Requests for Proposals (RFPs) were also obtained and reviewed. Table 1 provides summary information on these contracts for FY88 through FY89. The estimated contract values listed in the tables are based on DRMS' initial estimated values and do not represent disposal costs actually incurred.

A review of DRMS disposal contracts confirms that the contracts are typically written for a base period of 1 year with an option period of either 1 year or 90 days. DRMS provided copies of pertinent information from all contracts providing disposal to Army installations (either totally or in part).

The estimated base period value of individual DRMS contracts was highly variable, ranging from a high of \$2.9 million to a low of \$15,000. The overall average base period contract value was just over \$900,000. The number of CLINs per contract varied even more than the average contract value, ranging from 1 to 435. The overall average for CLINs per contract was 149.

The average contract value and average number of CLINs per contract were similar for both FY88 and FY89. The average contract value for FY88 was \$917,696 (with an average of 146 CLINs); the average value for FY89 was \$895,592 (with an average of 154 CLINs per contract).

The number of contracts awarded increased from 27 in FY88 to 42 in FY89. Firms that dominated the awards both years were GSX Government Services (with 15 contracts), Tricil Environmental Management, Inc. (8), and Chemical Waste Management, Inc. (11).

In this report, the term "non-AMC installations" refers to TRADOC and FORSCOM installations for purposes of brevity,

DRMS Hazardous Waste Disposal Contracts (Contract Start Dates 10/01/87 - 09/30/88)

No. of od CLINS	66	132				121	σ	277	S	165	7	363	9	435	72	36	36	285	174	3	145	100	T07	212	201 212 104	201 104 1	201 212 104 1	212 212 104 1 1	201 202 104 1 1	212 212 104 1 1			212 212 104 1 1 154 3,936
Est. \$ Value, Base Period	2.330.403	22	142,126					1,924,308	560,400		366, 645	1,406,886	745,376	-	764,565	309,890	398, 104	2,905,525	à	0	`o`	876,325	6			40	400	4051	4,0,5,1	40,5,1	1,224, 60, 15, 981,	1,224, 60, 15, 981,	4051
Option Period Length	1 Year	1 Year			$\boldsymbol{\Box}$	Day	0	~	1 Year		0	0	<u>и</u>	1 Year	1 Year	1 Year	1 Year	0	0	0	0	_		,	н 0	0 O	000	90 Days 90 Days 90 Days 90 Days	0000	0000	0000	0000	0000
Contract Start Date	11/24/87	/24/	11/24/87	04/22/88	/10/8	/11/8	/23/8	05/27/88	/03/8	8/90/	8/80/	16/8	/01/8	/11/8	/11/8	/11/8	/11/8	/28/8	07/28/88	8/60/	/10/8	08/26/88	/16/8	119/8	ロー・	9/29/8	9/29/8 9/29/8 9/29/8	9/29/8 9/29/8 9/29/8	9/29/8 9/29/8 9/29/8	9/29/8 9/29/8 9/29/8	9/29/8 9/29/8 9/29/8	9/29/8 9/29/8 9/29/8	9/29/8 9/29/8 9/29/8
Contract No.	DLA200-88-D-0063	88-D-00	DLA200-88-D-0065	DLA200-88-D-0038	DLA200-88-D-0074	œ	DLA200-88-D-0041	DLA200-88-D-0079	DLA200-88-D-0021	Ļ	DLA200-88-D-0023	DLA200-88-D-0022	DLA200-88-D-0024	DLA200-88-D-0042	8	88-D-	DLA200-88-D-0045	DLA200-88-D-0025	DLA200-88-D-0046	DLA200-88-D-0081	DLA200-88-D-0082	-00	LA200-88-D-004	DLA200-88-D-0083		LA200-88-D-005	LA200-88-D-005 LA200-88-D-005	LA200-88-D-0 LA200-88-D-0 LA200-88-D-0	LA200-88-D-0 LA200-88-D-0 LA200-88-D-0	LA200-88-D-0 LA200-88-D-0 LA200-88-D-0	LA200-88-D-0 LA200-88-D-0 LA200-88-D-0	LA200-88-D-0 LA200-88-D-0 LA200-88-D-0	LA200-88-D-0 LA200-88-D-0 LA200-88-D-0
Contractor	General Electric Company	U.S. Pollution Control, Inc.	North American Environmental	U.S. Pollution Control, Inc.	North American Environmental, Inc.		Underwood Industries, Inc.	Northwest Enviroservice, Inc.	Chemical Waste Management, Inc.	Special Waste, Inc.	Special Waste, Inc.	National Electric, Inc./APTUS	Chemical Waste Management, Inc.	National Electric, Inc./APTUS	Chemical Waste Management, Inc.	U.S. Pollution Control, Inc./PPM	ENSCO Environmental Services	Chemical Waste Management, Inc.	Special Waste, Incorporated	Unitek Environmental Services, Inc.	Northwest Enviroservice, Inc.	GSX Government Services, Inc.	Underwood Industries, Inc.	Unitek Environmental Services, Inc.		Chemical Waste Management, Inc.	Chemical Waste Management, Inc. SLC Environmental Services, Inc.	Chemical Waste Management, Inc. SLC Environmental Services, Inc. Northwest EnviroService, Inc.	Chemical Waste Management, Inc. SLC Environmental Services, Inc. Northwest EnviroService, Inc.	Chemical Waste Management, Inc. SLC Environmental Services, Inc. Northwest EnviroService, Inc.	Chemical Waste Management, Inc. SLC Environmental Services, Inc. Northwest EnviroService, Inc.	Chemical Waste Management, Inc. SLC Environmental Services, Inc. Northwest EnviroService, Inc.	Chemical Waste Management, Inc. SLC Environmental Services, Inc. Northwest EnviroService, Inc.

continued-

146

917,696

Averages

(Contract Start Dates 10/01/88 - 09/30/89)

Contractor		Contract No.	Contract Start Date	Option Period Length	Est. \$ Value, Base Period	No. of
Underwood Industries, Inc.		-89-D-006	0/04/8	0	8.78	163
GSX Government Services, Inc.		LA200-88-D-005	8/90/0	0 Dav	39,10	4
Underwood Industries, Inc.		LA200-89-D-006	0/09/8	0 Dav	65,60	, α
Chemical Waste Management, Inc.		-89-D-0	11/05/88	a,	875,405	252
Moheat, Inc.		LA200-89-D-006	1/01/8	0 Day	99,97	00
GSX Government Services, Inc.		-89-D-003	1/21/8	Year	13,89	S
GSX Government Services, Inc.		-89-D-003	1/22/8	0	526,77	2
Underwood Industries, Inc.		9-D-0-6	2/06/8	0 Day	35, 25	142
Chemical Waste Management, Inc.		-89-D-003	2/10/8	0 Day	34,26	2
		89-D-006	2/16/8	0 Day	,573,28	6
Management,	Inc.	89-D-003	2/22/8	0	38,03	2
Why Wastewater?, Inc.		.89-D-000	2/23/8	о О	18,88	⊣
Unitek Environmental Services		.89-D-000	1/14/8	0	65,28	2
Northwest Enviroservice Inc.		.89-D-000	1/11/8	Ϋ́e	87,45	9
		89-D-003	1/11/8	1 Year	698,44	9
nt,	Inc.	89-D-003	1/29/8	90 Days	76,70	n
GSX Government Services, Inc.		89-D-003	1/31/8	one	23,46	m
		89-D-003	2/25/8	1 Year	23, 93	0
nagement,	Inc.	89-D-000	2/25/8	90 Days	04,57	9
		A200-89-D-006	3/02/8	90 Days	55,52	0
ıt,	Inc.	LA200-89-D-006	3/03/8	Χe	39,15	0
GSX Government Services, Inc.		LA200-89-D-004	3/10/8	1 Year	89, 73	9
nt,	Inc.	LA200-89-	3/13/8	Χe	590,42	168
		A200-89-D-000	3/11/8	0 Da	345,50	7
ment,	Inc.	A200-89-D-004	/19/8	0 Da	53,94	ന
GSX Environmental Services Inc.		DLA200-89-D-0043	03/31/89	0 Day	483,72	6
Salety Kleen Envirosystems Co. of						
regree Arco, Inc.		DLAZUU-89-D-0069	04/11/89	90 Days	79,250	S

continued-

Table 1 (Cont'd)

Contractor	Contract No.	Contract Start Date	Option Period Length	Est. \$ Value, Base Period	No. of
	LA200-	4/14/8	1 Year	642,	144
GSX government Services, Inc.	DLA200-89-D-0044	04/24/89	90 Days	1,110,855	89
Chemical Waste Management, Inc.	LA200-	5/01/8		299,	157
Chemical Waste Management, Inc.	LA200-	5/14/8		363,510	109
GSX Government Services, Inc.	LA200-	5/16/8		753,831	177
CTA Environmental, Inc.	LA200-	6/21/8		1,591,730	195
Chemical Waste Management Inc.	LA200-	6/21/8		627,650	138
Special Resource Management, Inc.	LA200-	6/28/8	90 Days	272,	145
GSX Government Services, Inc.	LA200-	8/08/9		2,205,172	230
Chem-Care, Inc.	LA200-	7/14/8		374,385	125
Tricil Environmental Management, Inc.	LA200-	8/17/8		549,830	162
American Environmental Services, Inc.	LA200-	8		973,616	143
GSX Government Services, Inc.	LA200-89-D-004	8/30/8		344,179	140
Tricil Environmental Management, Inc.	LA200-89-D-00	14/8		43,	259
Terra First, Inc.	-007	/14/8	1 Year	294,000	
1			Totals	37,614,872	6,460
2					•
			Averages	895,592	154
	(Contract Start	Date After 10/01/89	(01/89)		
U.S. Ecology, Inc.	DLA200-89-D-0001	12/04/89	90 Days	743,286	24
		000	Overall Total (10/01/87 to date)	63,135,962	10,420
		000	Overall Average (10/01/87 to date)	901,942	149

No attempt was made to analyze contracts serving just Army installations because many provide combined service to Air Force, Navy, and Army facilities. Some contracts also include U.S. Army Corps of Engineers (USACE) civil works sites, U.S. Coast Guard bases, and other facilities.

There is no efficient mechanism for sorting waste generator (producer) data into specific installations, MACOMs, or MSCs because the waste generator is designated in the database only by its Department of Defense Activity Address Code (DODAAC), and each military unit has its own unique DODAAC. Most installations house many military units and, therefore, have many DODAACs. Conversely, a single DODAAC rarely covers an entire installation. Also, some DRMOs receive waste from installations other than the one on which they are located as well as non-Army installations. Therefore, it was necessary to search CLIN transaction records in the DRMS database, then sort them into separate files for AMC and non-AMC installations based on waste pickup locations.

A master CLIN List dated 30 August 1989, and a separate, undated list of PCB CLINs were obtained from DRMS (Appendix A, Tables A2 and A3). These lists are compiled by DRMS from the specific hazardous waste CLINs included in RFPs. The individual CLINs, some of which are very similar to each other in their descriptions, are grouped into 22 categories by DRMS. Based on input from MACOM and installation environmental personnel, six categories of particular interest were identified:

- Cleaning and degreasing solvents
- Metal plating wastes
- Batteries and battery electrolytes
- Sludges
- · Used oil
- · Paint stripping wastes.

The solvents category on the master list (CLINs 4500-5499) is a representative grouping of the Army's solvent wastes, so no special grouping of CLINs was necessary for solvents. The paint waste category (CLINs 3100 - 3399) was also considered representative and required no regrouping for this study. For the other four categories of waste, however, there was no standard CLIN list category or the category was incomplete. To generate complete information regarding the other categories of waste, special CLIN groupings were made. These groupings are listed in Appendices B through E. Appendix B lists the CLINs included in the metal plating waste category. Appendix C, the battery and battery electrolytes category, was formed by grouping the battery category CLINs (0500 - 0599) with CLIN 1333 for battery electrolyte (sulfuric acid), CLIN 1309 battery electrolyte (sulfuric acid), and CLIN 6102 batteries (magnesium). A broad category for sludges was created by including all CLINs on the master list containing the word "sludge" (Appendix D). A used-oil CLIN category was formed (Appendix E) by taking a subset of the CLINs in the master CLIN category of petroleum, oils, and lubricants (POLs) with contaminants. Cutting oils, sludges, and fuels were deleted from the master CLIN POL category.

Although the database entries are not certified by DRMS, the number of obvious entry errors appears to be small. No attempt was made to find or correct DRMS data entry errors, unless the error was obvious. Several miscodings of units are apparent in Appendices F and G. No attempt was made to change units to the master CLIN units because it would not improve accuracy of the data. Validation was almost impossible because it required going back to the generator's turn-in slip. Entry errors in unit cost or quantity would not be apparent, however, unless the number was excessively large. Therefore, no unit cost or quantity errors were identified. The objectives and general conclusions of this report do not appear to be compromised by data entry errors made by generators, DRMO, and DRMS.

## **Data for Non-AMC Installations**

The average, minimum, and maximum costs, quantity, and unit of measure for each CLIN are listed in the Unit Cost Summaries table (Appendix F). Appendix F and Tables 2 through 8 were prepared using DRMS data for the first three quarters of FY88. Of the 566 CLINs listed, 63 had a cost range of at least \$10.00 between the maximum and minimum unit cost (Table 2). The largest absolute cost range listed was for CLIN 5502 (spill residue, deleted), with a maximum of \$600/drum and a minimum of \$115.68/drum, for a difference of \$484.32. These figures reflect actual costs in DRMS contracts. In an attempt to normalize the cost differences, the difference was divided by the average cost for each CLIN, resulting in a cost variability index. CLIN 6089 had the highest index value (82.54) for empty containers of 1 gal\* or larger with less than 1 in. of residual waste. The CLINs with the next highest index values were 1201 (10.46 for 1 gal or larger containers with more than 1 in. of non-RCRA\*\* wastes) and 6011 (10.08 for 1 gal or larger containers with more than 1 in, of RCRA wastes. Possible explanations for some of these large cost differences include variations in the government's estimated quantity (smaller estimated quantities of the same waste usually have a higher unit cost), the date of the contract period (contracts awarded more recently reflect the costs of more stringent disposal methods required for some waste types), and geographical differences (possibly indicating greater transport distances to disposal sites or varying state regulations). Another possible reason for higher cost variability of certain CLINs is that CLINs of miscellaneous content cover much or all of a waste category; in some cases the contractors may know or project that most of the waste disposed of under that CLIN will not be the worst-case (highest cost) waste, and bid accordingly; other contractors may bid cautiously and quote a worst-case unit bid price for that same CLIN.

More than half of the CLINs (33 out of 63) in Table 2 specify "each" as the unit. Also, 45 are containers and 51 have miscellaneous content. In Table 3, eight of the top 10 CLINs with the highest cost differences have miscellaneous content, and in Table 4, six of the CLINs are "miscellaneous." This confirms that contractors bid differently on miscellaneous CLINs.

The item with the most transactions was CLIN 1201 (as shown in Table 5, containers of 1 gal or larger with more than 1 in. of the wastes described in CLINs 0500 - 5999). Of the 11,000 plus non-AMC transactions reported, 2562 involved CLIN 1201—approximately 23 percent of the total. The item with the second largest number of transactions was 0501 (batteries, lithium-sulfurdioxide) with 554 transactions—about 5 percent of the total. The number of transactions involving individual CLINs decreased steadily after the top two. The 20th most frequent CLIN on the list had only 91 transactions. The top 20 CLINs accounted for 57 percent of all transactions; the other 546 CLINs accounted for the remaining 43 percent of the transactions.

Of the 20 most-transacted CLINs, 10 were also in the top 20 when ranked by total weight (Table 6). CLIN 3921 (oil contaminated with [but not limited to] dirt, water, diesel fuel, thinners, solvents, paint, ethylene glycol, turpentine, or gasoline) topped all CLINs by weight, and ranked 11th in number of transactions with 159.

<sup>\*</sup>English measurement units are used throughout this report. A metric conversion table can be found on page 44.

<sup>&</sup>quot;Resource Conservation and Recovery Act. Wastes governed by this U.S. Environmental Protection Agency (EPA) regulation are referred to as "RCRA wastes."

Table 2 CLINs With \$10.00 or Greater Unit Disposal Cost Difference (Non-AMC Installations)

		Maximum	Minimum	Cost	Cost
CLIN	Unit*	Cost, \$	Cost, \$	Difference, \$	Variability, \$a
-					
0001	ea	30.00	10.00	20.00	0.97
0002	ea	25.00	0.00	25.00	7.29
0003	ea	16.33	1.81	14.52	1.31
0004	ea	16.33	0.00	16.33	1.42
0501	1b	16.00	0.05	15.95	3.06
1201	1b	16.00	0.00	16.00	10.46
1300	gl	18.00	0.05	17.95	2.85
1301 1303	1b	15.00	3.00 0.72	12.00 11.28	2.22
1305	ea gl	12.00 16.00	0.72	15.50	2.37 5.42
1651	ea	15.00	3.62	11.38	1.04
1652	ea	15.00	3.62	11.38	1.11
1653	ea	15.00	1.00	14.00	1.65
1654	ea	15.00	.78	14.22	2.01
2000	ea	35.00	1.56	33.44	2.59
2001	ea	35.00	1.00	34.00	3.09
2002	ea	20.00	1.00	19.00	2.27
2003	ea	20.00	1.56	18.44	1.79
2003	lb	11.00	0.72	10.28	1.75
2005	gl	16.00	0.50	15.50	6.28
2300	ea	14.04	1.00	13.04	1.74
2300	gl	24.30	0.50	23.80	5.32
2301	ea	15.00	2.67	12.33	1.39
2301	1b	20.00	0.98	19.02	4.68
2302 2303	ea	16.33	1.81	14.52	2.56
2305	ea gl	15.00 16.00	1.49 0.10	13.51 15.90	1.74 4.25
2805	gl	23.45	2.00	21.45	1.84
3100	ea	16.33	3.39	12.94	1.71
3100	gl	11.00	1.00	10.00	1.38
3105	gl	10.36	0.10	10.26	3.14
3106	ĺb	14.00	0.33	13.67	4.12
3305	gl	10.36	0.25	10.11	2.25
3400	ea	25.00	14.00	11.00	0.52
3401	ea	25.00	5.60	19.40	1.18
3401	1b	35.00	5.00	30.00	3.75
3402	ea	20.00	9.00	11.00	0.88
3403	ea	20.00	3.96	16.04	1.17
3405	gl	32.00	0.05	31.95	4.62
3411	gl	20.00	5.00	15.00	1.50
3902 3905	ea al	16.33 16.00	1.81	14.52	2.14
4203	gl ea	45.00	0.10 3.15	15.90	6.91
7203	Ea	40.00	3,13	41.85	2.54

continued-

<sup>&#</sup>x27;ea = each; lb = pound; gl = gallon; dm = drum.
'This figure was calculated by dividing the cost difference by average cost. Average cost values were taken from Appendix F.

Table 2 (Cont'd)

CLIN	Unit*	Maximum Cost, \$	Minimum Cost, \$	Cost Difference, \$	Cost <u>Variability</u> \$°
4500	ea	30.00	3.31	26.69	2.44
4500 4502	gl	36.00 45.00	0.50 6.22	35.50 38.78	2.98 2.41
4502	ea gl	16.00	0.10	15.90	3.87
4704	gl	16.00	0.05	15.95	2.16
4705	gl	16.00	0.10	15.90	2.43
4722	gl	12.00	0.10	11.90	1.61
5502	dm	600.00	115.68	484.32	2.05
5601	ea	16.33	4.74	11.59	0.80
5601	1b	12.19	.90	11.29	4.43
5602	ea	16.33	1.00	15.33	2.21
5603	ea	16.33	3.15	13.18	0.87
6000	ea	20.00	1.00	19.00	2.68
6001	ea	20.00	2.67	17.33	1.52
6002	ea	16.33	1.81	14.52	2.92
6003	ea	20.00	0.72	19.28	3.92
6005	gl	16.00	0.05	15.95	5.13
6011	1b	12.00	0.00	12.00	10.08
6012	gl	20.00	1.00	19.00	6.57
6089	lb	52.00	0.00	52.00	82.54

Table 3 Top Ten CLINs With Highest Disposal Cost Difference (Non-AMC Installations)

CLIN	Unit	Maximum Cost, \$	Minimum Cost, \$	Cost Difference, \$	Cost Variability, \$b
5502	dm	600.00	115.68	484.32	2.05
6089	1b	52.00	0.00	52.00	82.54
4203	ea	45.00	3.31	41.85	2.54
4502	ea	45.00	6.22	38.78	2.41
4500	gl	36.00	0.50	35.50	2.44
2001	ēa	35.00	1.00	34.00	2.59
2000	ea	35.00	1.56	33.44	2.01
3405	gl	32.00	0.05	31.95	4.62
3401	ĺb	35.00	5.00	30.00	1.18
4500	ea	30.00	3.31	26.69	2.98

<sup>&#</sup>x27;dm = drum; lb = pound; ea = each; gl = gallon.

This figure was calculated by dividing the cost difference by the average cost. Average cost values were taken from Appendix F.

This figure was calculated by dividing the cost difference by the average cost. Average cost values were taken from Appendix G.

Table 4 **CLINs With Highest Unit Disposal Cost** (Non-AMC Installations)

CLIN	Unit*	Maximum Cost, \$
5502	dm	600.00
0092	dm	528.59
2133	yd	195.00
0017	ģĺ	76.29
6089	ĺь	52.00
4203	ea	45.00
4502	ea	45.00
4500	gl	36.00
2000	ēa	35.00
2001	ea	35.00
3401	1b	35.00

Table 5 **Top 20 Most-Transacted CLINs** (Non-AMC Installations)

CLIN	Supplies/Services	No. of Transactions	% of Total
1201	Containers, 1 gl or larger, with more than 1 in. of the wastes described in CLINs 0500-5999	2562	23.1
0501	Batteries, lithium-sulfur dioxide	554	5.0
6011	Containers, 1 gl or larger, with more than 1 in. of the wastes described in CLINs 6000-6500	368	3.3
6089	Containers, empty, 1 gl or larger with less than 1 in. of the wastes described in CLINs 0500-6500 (uncrushed or crushed)	325	2.9
0504	Batteries, mercury	272	2.5
2801	Medical items, misc. in containers less than 7 lb	252	2.3
3105	Paint, misc.	234	2.1
5500	Spill residues, misc. and/or debris, RCRA contaminated	196	1.8

continued-

<sup>&#</sup>x27;dm = drum; yd = cubic yard; gl = gallon; lb = pound; ea = each.

Table 5 (Cont'd)

CLIN	Supplies/Services	No. of Transactions	% of Total
5601	Toxics, misc. in containers less than 7 lb	174	1.6
0106	Not listed on Master CLIN List	166	1.5
3921	Oil, may be contaminated with (but not limited to) dirt, water, diesel fuel, thinners, solvents, paint, ethylene glycol, turpentine, or gasoline	159	1.4
6033	Wood or debris with residual amounts of PCP, DDD, and/or DDE	148	1.3
6007	Asbestos and asbestos contaminated wastes	146	1.3
4505	Solvents, misc.	142	1.3
1309	Battery electrolyte (sulfuric acid)	126	1.1
2305	Ignitables, misc.	125	1.1
2300	Ignitables, misc., in containers less than 1 gl	111	1.0
0005	Acute hazardous waste, misc.	110	1.0
3905	POL, misc.	104	0.9
7012AH	Transformers, less than 50 ppm PCB	91	0.8

NOTE: PCP = pentachlorophenol; DDD = dichlorodiphenyldichloroethane; DDE = dichlorodiphenyldichloroethylene; POL = petroleum, oils, lubricants; PCB = polychlorinated biphenyl; PPM - parts per million.

Table 6

Top 20 CLINs in Weight (Non-AMC Installations)

CLIN	Supplies/Services	Total Weight/ CLIN (kg) <sup>2</sup>	% of Total
3921	Oil, may be contaminated with (but not limited to) dirt, water, diesel fuel, thinners, solvents, paint, ethylene glycol, turpentine, or gasoline	442,595	11.1
2133	Sludge, may be contaminated with (but not limited to) trivalent chrome, cadmium, heavy metals and metals	305,539	7.6

continued -

<sup>\*</sup>kg = kilograms

Table 6 (Cont'd)

CLIN	Supplies/Services	CLIN (kg)	% of Total
3911	Oil/oil sludge from water separator or tank	286,862	7.2
6033	Wood or debris with residual amounts of PCP, DDD, and/or DDE	193,313	4.9
0106	Not listed on Master CLIN List	157,162	3.9
4720	Deleted - 4753	147,989	3.7
1201	Containers, 1 gl or larger, with more than 1 in. of the wastes described in CLINs 0500-5999	145,900	3.7
5500	Spill residues, misc. and/or debris, RCRA contaminated	118,366	3.0
4705	Paint removers	115,781	3.0
6089	Containers, empty, 1 gl or larger with less than 1 in. of the wastes described in CLINs 0500-6500 (uncrushed or crushed)	106,284	2.7
0501	Batteries, lithium-sulfur dioxide	90,034	2.3
3300	Paint wastes, may be contaminated with (but not limited to) oils, thinners, dirt, solvents, removers and strippers	87,087	2.2
0031	Not listed on Master CLIN List	84,368	2.1
5604	Toxics, misc.	82,264	2.0
3905	POL, misc.	74,021	1.9
3928	Petroleum fuels	68,158	1.7
1309	Battery electrolyte (sulfuric acid)	64,125	1.6
4742	Deleted - 3905	58,995	1.5
3918	Oil contaminated with water	49,466	12
3105	Paint, misc.	39,135	1.0

NOTE: PCP = pentachlorophenol; DDE = dichlorodiphenyldichloroethylene; DDD = dichlorodiphenyldichloroethane; POL = petroleum, oils, lubricants.

Table 7

Top 20 CLINs in Total Disposal Cost
(Non-AMC Installations)

CLIN	Supplies/Services	Total Cost, \$	% of Total
0501	Batteries, lithium-sulfur dioxide	588,614	12.7
1201	Containers, 1 gl or larger, with more than 1 in. of the wastes described in CLINs 0500-5999	572,583	12.3
4720	Deleted - 4753	347,524	7.5
3921	Oil, may be contaminated with (but not limited to) dirt, water, diesel fuel, thinners, solvents, paint, ethylene glycol, turpentine, or gasoline	218,488	4.7
0031	Not listed on Master CLIN List	186,010	4.0
6033	Wood or debris with residual amounts of PCP, DDD, and/or DDE	182,795	3.9
5500	Spill residues, misc. and/or debris, RCRA contaminated	158,393	3.4
3911	Oil/oil sludge from water separator or tank	148,169	3.2
6089	Containers, empty, 1 gl or larger with less than 1 in. of the wastes described in CLINs 0500-6500 (uncrushed or crushed)	120,311	2.6
3300	Paint wastes, may be contaminated with (but not limited to) oils, thinners, dirt, solvents, removers and strippers	106,563	2.3
6049	Decon agent, STB, less than 39% chlorine	90,596	2.0
0600	Compressed gas cylinders, misc.	81,566	1.8
2133	Sludge, may be contaminated with (but not limited to) trivalent chrome, cadmium, heavy metals, and metals	78,000	1.7
4705	Paint removers	72,328	1.6
5604	Toxics, misc.	55,602	1.2
4704	Solvents and thinners contaminated with (but not limited to) paint wastes	51,506	1.1
3905	POL, misc.	47,915	1.0
1309	Battery electrolyte (sulfuric acid)	45,851	1.0
3928	Petroleum fuels	43,616	0.9
7007	Transformers 500 ppm and over PCB	39,952	0.9

NOTE: PCP = pentachlorphenol; DDD = dichlorodiphenyldichloroethane; DDE = dichloro-diphenyldichloroethylene; STB = supertropical bleach; POL = petroleum, oils,

Table 8

Top 20 CLINs in Unit Disposal Cost
(Non-AMC Installations)

CLIN	Supplies/Services	Unit Cost, \$	Units*
5603	Deleted - 5601	130.63	kg
2303	Deleted - 2301	101.60	kg
2002	Deleted - 2000	79.83	kg
2003	Deleted - 2001	79.83	kg
6089	Containers, empty, 1 gal or larger with less than 1 in. of the wastes described in CLINs 0500-6500 (uncrushed or crushed)	23.59	kg
4203	Deleted - 4201	45.00	ea
4502	Deleted - 4500	45.00	ea
2000	EP toxic, misc. in containers less than 1 gal	35.00	ea
2001	EP toxic, misc. in containers less than 7 lb	35.00	ea
0001	Acute hazardous waste, misc. in containers less than 1 gal	30.00	ea
0151	Not listed on Master CLIN List	30.00	ea
4203	Deleted - 4201	30.00	ea
4500	Solvents, misc. in containers less than 1 ga	1 30.00	ea
0002	Acute hazardous waste, misc. in containers less than 7 lb	25.00	ea
3103	Deleted - 3101	25.00	ea
3400	Pesticides, misc. in containers less than 1 gal	25.00	ea
3401	Pesticides, misc. in containers less than 7 lb	25.00	ea
4200	Reactives, misc. in containers less than 1 gal	20.48	ea
3402	Deleted - 3400	20.00	ea
3403	Deleted - 3401	20.00	ea

 $<sup>^{</sup>a}$ Costs given in kg have been converted from original units reported. NOTE: EP = extraction procedure.

Table 7 lists the 20 CLINs with the highest total disposal costs. CLIN 0501 (batteries) tops this list at \$588,614, and CLIN 1201 (containers) is second at \$572,583. The top four on this list are also in the top 20 for total weight; eight on the list in Table 7 are also among the 20 most-transacted (disposed of) CLINs. Since the new lithium-sulfur dioxide batteries with a complete discharge device (CDD) will be disposed of with general trash, the quantity of CLIN 0501 will be substantially reduced. The quantity of CLIN 6033 will also be reduced because PCP-treated wood is not defined as hazardous waste in the applicable EPA regulation that was recently finalized. Although PCP ammunition boxes had been classified as special waste, not hazardous waste, most Army installations regarded it as hazardous waste. The Army needs to develop a guideline for installations on how to dispose of the PCP ammunition boxes. However, PCP is still a listed hazardous waste. It is recommended that each CLIN of high total disposal cost be studied in depth to evaluate the Army's opportunity to lower those costs.

Table 8 lists the individual CLINs with the highest disposal cost per unit. All CLINs having a specified weight or volume were converted to kilograms for comparison. For 15 of the top 20 CLINs, "each" is listed as the unit. No attempt was made to compare "each" CLINs to CLINs with specified weight units. Five of the top six CLINs had ounces as their unit in the database. It should be noted that some CLINs in the database are entered with more than one unit. Note in Appendix F, for example, that CLIN 0001 is listed with units of each, gallons and pounds. CLIN 2003 is recorded in the database with six different units: bottles, boxes, each, pounds, ounces, and tubes. This occurs because DRMS used different units for the same waste on different contracts it awarded.

Not all CLIN units in the database agree with the units for the same CLINs or the Master CLIN List. This occurs for the CLINs deleted from the Master CLIN List but still in the database. It was also possible that different units were used when the items were turned-in to DRMO by a generator. In the latter case, the Army generators are recommended to use the master CLIN units.

#### Data for AMC Installations

Data for the first three quarters of FY88 only were used to prepare Appendix G and Tables 9 through 12. Table 9 ranks the top 20 CLINs from AMC installations by number of transactions. The CLIN with the greatest number of transactions was CLIN 1201 (containers, 1 gal or larger, with more than 1 in. of the wastes described in CLINs 0500 - 5999) with 1698, or about 30 percent of AMC's transactions. The second most-transacted CLIN was 0002 (acute hazardous waste, miscellaneous, in containers less than 7 lb) with 207 or 3.7 percent of all transactions. The number of transactions for the top 20 CLINs in this category decreases significantly after the top item (CLIN 1201); the last 17 CLINs on the list each accounting for less than 2 percent of all of AMC's transactions.

Table 10 lists the top 20 CLINs from AMC installations by weight. The top 20 range in weight from over 1,000,000 kg for CLIN 6033 (wood or debris with residual amounts of PCP, DDD, and/or DDE) to 62,000 kg for CLIN 0016 (barium cyanide). The second-ranked item by weight, CLIN 6023 (oil, cutting), represents less than half the weight of the top ranked CLIN in this category.

The 20 CLINs with the highest total disposal costs are listed in Table 11. The costs listed range from \$995,180 for CLIN 7007 (transformers, 500 parts per million [ppm] and over PCB) to \$49,705 for CLIN 1660 (sodium hydroxide).

Table 12 lists the top 20 CLINs ranked by unit disposal cost. Unit costs range from \$195.00/cu yd for disposal of CLIN 2133 (sludge) to \$11.50/each for CLIN 4203 (miscellaneous reactives in containers less than 1 gal).

<sup>&</sup>lt;sup>1</sup>Battery Disposition/Disposal Handbook (U.S. Army Communications - Electronics Command [CECOM], 1989). <sup>2</sup>40 CFR Part 261, Protection of the Environment; Identification and Listing of Hazardous Waste (March 1990).

Table 9

Top 20 Most-Transacted CLINs
(AMC Installations)

CLIN	Supplies/Services	No. of Transactions % o	of Total
1201	Containers, 1 gl or larger, with more than 1 in. of the wastes described in CLINs 0500-5999	1698	31.1
0002	Acute hazardous waste, misc. in containers less than 7 lb	227	4.2
2004	EP toxics, misc.	143	2.6
1305	Corrosives acids, misc.	102	1.9
4505	Solvents, misc.	85	1.5
6011	Containers, 1 gl or larger, with more than 1 in. of the wastes described in CLINs 6000-6500	83	1.5
4704	Solvents and thinners contaminated with (but not limited to) paint wastes	75	1.4
2305	Ignitables, misc.	69	1.3
4722	Deleted - 4753	64	1.2
3418	Pentachlorophenol (PCP)	61	1.1
3309	Paint wastewater treatment sludge, may be contaminated with (but not limited to) paint, dirt and heavy metals	58	1.1
3300	Paint wastes, may be contaminated with (but not limited to) oils, thinners, dirt, solvents, removers and strippers	55	1.0
6089	Containers, empty, 1 gl or larger with less than 1 in. of the wastes described in CLINs 0500-6500 (uncrushed or crushed)	54	1.0
2301	Ignitables, misc. in containers less than 7 lb	52	0.1
6033	Wood or debris - with residual amounts of PCP, DDD, and/or DDE	51	0.09
2100	Blasting booth dusts/sandblast media with heavy metals	49	0.09
2300	Ignitables, misc. in containers less than 1 gal	48	0.09
4714	Trichloroethane, 1,1,1-, still bottoms	47	0.09
5500	Spill residues, misc. and/or debris, RCRA contaminated	47	0.09
6007	Asbestos and asbestos-contaminated wastes	46	0.08

NOTE: DDD = dichlorodiphenyldichloroethane; DDE = dichlorodiphenyldichloroethylene; EP = extraction process.

Table 10

Top 20 CLINs in Weight (AMC Installations)

CLIN	Supplies/Services	Total Weight/ CLIN (kg)	% of Total
6033	Wood or debris with residual amounts of PCP, DDD, and/or DDE	1,178,249	36.0
6023	Oil, cutting	576,901	9.2
3915	Oil sludge	368,085	5.9
3936	Oil, may be contaminated with (but not limited to) heavy metals	262,726	4.2
2100	Blasting booth dusts/sandblast media with heavy metals	235,110	3.7
3418	Pentachlorophenol (PCP)	209,000	3.3
1201	Containers, 1 gl or larger, with more than 1 in. of the wastes described in CLINs 0500-5999	206,807	3.3
3921	Oil, may be contaminated with (but not limited to) dirt, water, diesel fuel, thinners, solvents, paint, ethylene glycol, turpentine and gasoline	176,138	2.8
3911	Oil/oil sludge from water separator or tank	142,258	2.7
2143	Agricultural blast (walnut shells) (in hopper)	132,721	2.1
4722	Deleted - 4753	114,328	1.8
4505	Solvents, misc.	113,314	1.8
1912	Alkaline solution, may be contaminated with (but not limited to) heavy metals	113,253	1.8
1660	Sodium hydroxide (caustic soda)	94,592	1.5
4705	Paint removers	90,632	1.4
4704	Solvents and thinners contaminated with (but not limited to) paint wastes	88,347	1.4
5500	Spill residues, misc. and/or debris, RCRA contaminated	85,706	1.3
0091	Not listed on Master CLIN List	70,120	1.1
4720	Deleted - 4753	66,278	1.0
0016	Barium cyanide	62,055	1.0

NOTE: PCP = pentachlorophenol; DDD = dichlorodiphenyldichloroethane; DDE = dichlorodiphenyldichloroethylene.

Table 11

Top 20 CLINs in Total Disposal Cost
(AMC Installations)

CLIN	Supplies/Services	Total Cost, \$	% of Total
7007	Transformers, 500 ppm and over PCB	995,180	17.3
1201	Containers, 1 gl or larger, with more than 1 inch of the wastes described in CLINs 0500-5999	800,209	13.9
6033	Wood or debris with residual amounts of PCP, DDD, and/or DDE	474,932	8.3
3936	Oil, may be contaminated with (but not limited to) heavy metals	416,700	7.2
3915	Oil sludge	238,719	4.2
6023	Oil, cutting	152,500	2.7
0091	Not listed on Master CLIN List	110,820	1.9
2100	Blasting booth dusts/sandblast media with heavy metals	99,119	1.7
3921	Oil, may be contaminated with (but not limited to) dirt, water, diesel fuel, thinners, solvents, paint, ethylene glycol, turpentine, or gasoline	98,228	1.7
3418	Pentachlorophenol (PCP)	96,761	1.7
4505	Solvents, misc.	94,490	1.6
4704	Solvents and thinners contaminated with (but not limited to) paint wastes	94,360	1.6
4722	Deleted - 4753	93,432	1.6
5500	Spill residues, misc. and/or debris, RCRA contaminated	85,684	1.5
4705	Paint removers	72,970	1.3
4504	Solvents, misc.	70,249	1.2
2004	EP toxics, misc.	55,650	1.0
1912	Alkaline solution, may be contaminated with (but not limited to) heavy metals	53,335	0.9
3911	Oil/oil sludge from water separator or tank	50,265	0.9
1660	Sodium hydroxide (caustic soda)	49,705	0.9

NOTE: PCP = pentachlorophenol; DDD = dichlorodiphenyldichloroethane; DDE = dichlorodiphenyldichloroethylene; EP = extraction process.

Table 12

Top 20 CLINs in Unit Disposal Cost (AMC Installations)

CLIN	Supplies/Services	Unit Cost, \$	Units*
2133	Sludge, may be contaminated with (but not limited to) trivalent chrome, cadmium, heavy metals and metals	195.00	yd
5603	Deleted - 5601	130.63	kg
4503	Deleted - 4501	116.12	kg
0040	Not on Master CLIN List	100.00	ea
2302	Deleted - 2300	88.90	kg
2303	Deleted - 2301	88.90	kg
6003	Deleted ~ 6001	79.83	kg
0001	Acute hazardous waste, misc. in containers less than 1 gal	30.00	ea
4501	Solvents, misc. in containers less than 7 lb	25.50	ea
0002	Acute hazardous waste, misc. in containers less than 7 lb	18.00	ea
5602	Deleted - 5600	18.00	ea
5603	Deleted - 5601	18.00	ea
1651	Corrosive bases, misc. in containers less than 1 gal	16.33	ea
3700	Photography wastes, misc. in containers less than 1 gal	16.33	ea
4500	Solvents, misc. in containers less than 1 gal	16.33	ea
2303	Deleted - 2301	14.00	kt
4502	Deleted - 4500	13.50	ea
2301	Ignitables, misc. in containers less than 7 lb	12.20	ea
0004	Deleted - 0002	12.00	ea
4203	Deleted - 4201	11.50	ea

<sup>\*</sup>Costs given in kg have been converted from original units reported. NOTE: yd = cubic yard; kg = kilogram; ea = each; kt = kit.

The maximum, minimum, and average unit costs, quantities and units for individual CLINs are listed in Appendix G. This unit cost summary table allows cost comparisons based on the various quantities that may be specified in a disposal contract. For example, CLIN 0016 (barium cyanide) is listed in units of drums (dm), pounds (lb) and gallons (gl). Average unit costs for these quantities of CLIN 0016 were \$0.18/dm, \$0.18/lb and \$3.00/gl. When these average unit costs are each converted to dollars/gallon they become \$.003/gl (for drums), \$1.50/gl (for pounds), and \$3.00/gl, respectively.

Only CLINs 2301 and 0002 were found among both the top 20 CLINs for maximum unit cost (Table 12) and number of transactions (Table 9). Sixteen of the top 20 CLINs listed in Table 11 (total disposal costs per CLIN) are also among the top 20 CLINs by weight (Table 10), and eight of these are among the top 20 CLINs by number of transactions (Table 9). CLIN 7007 (PCB transformers), however, which has the highest total cost (\$995,180), is not on the top 20 list for quantity, number of transactions, or unit cost.

## Comparison of AMC and Non-AMC Disposal Data

Tables 13 and 14 examine hazardous waste category characteristics for both AMC and non-AMC database files for all of FY88. Table 13 includes the waste categories of particular interest to this study (except solvents and paint wastes, which are identical to the solvent and paint wastes categories in Table 14). Table 14 lists all of the CLIN categories found in Appendix A, Table A1.

The totals for categories with similar titles (batteries and metal plating) in Tables 13 and 14 differ because different CLINs are included in the respective categories of each table. The specific CLINs included in each category of Table 13 are listed in Appendices B, C, D, and E. Table 14 includes all of the hazardous waste data in the database files. Tables 13 and 14 are based on data from all four quarters of FY88.

The category figures in Table 13 have been totaled for comparison with the overall totals in Table 14. The six categories listed in Table 13 represent a considerable percentage of total waste disposal costs and volumes listed in Table 14. In Table 13, the highest total cost categories for non-AMC installations were batteries and solvents; the highest cost categories for AMC installations were paint wastes and solvents. In terms of quantity, solvents and used oil were the largest categories for non-AMC installations; paint wastes and solvents were the largest categories for AMC installations. It should be noted that Tables 13 and 14 reflect a very large amount of paint wastes turned in to DRMOs by AMC installations during the last quarter of FY88. This demonstrates why it is necessary to study waste disposal and generation data covering a significantly longer period of time: data from any given quarter can apparently change the overall totals dramatically.

This study is limited to analysis of data pertaining to waste disposal, but such information alone is not sufficient for fully developing cost-reduction strategies. Waste data must be tracked to (or collected from) the generators for a more complete picture of the issues involved. Also, it is recommended that DRMS disposal cost and quantity generation data covering a longer period of time be analyzed for trends that would not be apparent in just 1 year's worth of data.

There are some major differences in average unit costs both between categories and between AMC and non-AMC data for the same category. For both AMC and non-AMC installations in the Table 13 categories, batteries had the highest average unit disposal cost. As calculated from Table 13 (dividing mass by number of transactions), non-AMC installations disposed of smaller average quantities (mass) per

Table 13

Hazardous Waste Summaries for Six CLIN Categories of High Interest

		Non-AMC Pickup Points	o Points		,	AMC Pickup Points	p Points	
Category	Cost, \$	Number Transactions	Mass, Kq	Cost, \$ Per Kq	Cost, \$	Number Transactions	Mass, Kq	Cost, \$ Per Kq
Batteries	1,242,076	1982	287,160	4.33	30,667	120	13,780	2.23
Solvents	1,188,285	1121	928,096	1.28	1,379,594	1120	1,155,604	1.19
Metal Plating	811	16	1248	0.65	89,128	62	154,863	0.58
Used Oil	451,883	453	851,977	0.53	555,589	169	514,981	1.08
Sludge	289,368	34	649,258	0.45	651,593	199	843,159	6.77
82 Paint Wastes	217,918	671	235,826	0.92	5,888,131	3833	5,943,031	0.99
TOTALS	3,390,341	4277	2,683,565	1.26	8,594,702	5503	8,625,418	66.0
Percentage of Totals Listed in Table 14	51.2	27.4	45.8	I	58.8	43.5	56.0	ı

Table 14

Hazardous Waste Summaries for All CLIN Categories

		Non	Non-AMC Pick	ickup Points						AMC Pickup Point	Points			
	Cost		Trans	ansactions	Weight		Unit	Cost		Transactions	ctions	Weight	, t	Just
	•	Jo a		30 %	å	Jo t	Cost	•	Jo &		\$ O.	•	30 A	Cost
1000000	2	1002	Tega Par	TOCAL	2	TOTAL	5VV6	•	TOTAL	MONTO	TOCAL	NG.	TOTAL	\$/¥6
Acute Hazardous Waste	410,645	6.2	954	6.1	376,881	6.4	1.09	403,305	2.8	536	4.2	677,388	4.4	09.0
Batteries	1,164,726	17.6	1741	11.1	191,960	3,3	6.07	27,379	0.2	102	0.8	9820	0.1	2.79
Compressed Gas	84,373	1.3	10	0.1	6782	0.1	12.44	2687	0	4	٥.	566	0	10.10
Containers	790,326	12.0	3830	24.5	285, 756	6.4	2.11	1,173,152	8.0	2878	22.7	403.573	2.6	2.91
Corrosives - Acids	91,039	1.4	390	2.5	120,419	2.0	0.76	291, 201	2.0	369	5.9	368, 211	2.4	0.79
Corrosives - Bases	57,084	6.0	406	5.6	69, 694	1.2	0.82	306,190	2.1	219	1.7	641,215	4.2	0.48
EP Toxic	327, 665	5.0	476	3.0	757,954	12.9	0.43	703,142	4.8	714	9.6	1,099,850	7.1	0.64
Ignitables	110,531	1.7	842	5.4	135,612	2.3	0.82	55,567	0.4	455	3.6	61,983	0.4	0.90
Medical Items	11,540	0.5	439	2.8	2722	0	4.24	2045	0	11	0.1	208	0	9.83
Metal Plating/Metal	26,858	0.4	24	0.2	12,655	0.2	2.12	26, 715	0.2	9	0.5	46,008	0.3	0.58
Stripping														
Paints	217,918	3.3	671	4.3	235,826	4.0	0.92	5,888,131	40.3	3833	30.3	5,943,031	38.6	0.99
Pesticides	61,460	6.0	151	1.0	86,215	1.5	0.71	213,478	1.5	195	1.5	373,174	2.4	0.57
Photography Wastes	15,885	0.5	133	0.9	19,239	0.3	0.83	4894	0	29	0.5	4798	0	1.02
POL	735, 181	11.1	725	4.6	1,371,171	23.4	0.54	991,338	8.9	297	2.3	1,243,772	8.1	0.80
Reactives	8,970	0.1	8	0.5	2955	0.1	3.04	131,929	6.0	54	0.4	460,170	3.0	0.29
Solvents	1,188,285	18.0	1121	7.2	958,096	15.9	1.28	1,379,594	9.4	1120	æ æ.	1,155,604	7.5	1.19
Spill Residues	216,453	3.3	249	1.6	190,447	3.3	1.14	99,824	0.7	06	0.7	103, 697	0.7	96.0
Toxics	95, 669	1.4	562	3.6	120,681	2.1	0.79	8684	0.1	98	0.7	7430	0	1.17
Chemical Defense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equip. Kits														
Non-RCRA	738,797	11.2	2110	13.5	664,551	11.4	1.11	1,574,064	10.8	997	7.9	2,480,676	16.1	0.63
PCBs	263,416	4.0	712	4.6	275,191	4.7	96.0	1,326,335	9.1	583	4.6	327,141	2.1	4.05
Medical Items (non-RCRA)	0	0	0	0	0	0	0	2226	0	1	0	381	0	5.84
		]					l							l
TOTALS	6,616,821 100.1	100.1	15,630	100.1	5,854,807	100.0	1.13	14,611,880	100.1	12, 663	99.8	15,408,396	100.0	0.95

The categories listed include those on the DRMS master CLIN list dated 08/30/89 and the PCB CLIN list (a single category). Not 100 percent because of roundoff imprecision.

transaction than AMC installations (627 kg/transaction for non-AMC vs 1567 kg/transaction for AMC) and paid larger average unit disposal costs than AMC installations (\$1.26/kg for non-AMC vs \$0.99/kg) for the six high-interest waste categories. Also, although the CLINs included in each category were the same for AMC and non-AMC, the distribution of waste among specific CLINs may have been significantly different for AMC and non-AMC wastes. This could impact the average unit costs used in comparisons.

From Table 14, the non-AMC categories with costs exceeding 10 percent of total disposal costs included solvents (18.0 percent), batteries (17.6 percent), containers (12.0 percent), POL (11.1 percent) and non-RCRA waste (11.2 percent). AMC categories with costs exceeding 10 percent of total disposal costs were paints (40.3 percent) and non-RCRA wastes (10.8 percent). Cost comparisons in Table 14 indicate considerably higher percentage of total costs for certain categories at non-AMC sites compared to AMC sites: acute hazardous waste (6.2 percent vs. 2.8 percent), batteries (17.6 percent vs. 0.2 percent), ignitables (1.7 percent vs. 0.4 percent), compressed gas cylinders (1.3 percent vs. 0.0 percent), spill residues (3.3 percent vs. 0.7 percent) and toxics (1.4 percent vs. 0.1 percent). AMC percentage-of-total costs were considerably higher than non-AMC for corrosives-bases (2.1 percent vs. 0.9 percent), paints (40.3 percent vs. 3.3 percent), and PCBs (9.1 percent vs. 4.0 percent).

Analysis of the percentages for the number-of-transactions figures also revealed major differences between AMC and non-AMC data. Non-AMC waste categories exceeding 10 percent of the total number of transactions include containers (24.5 percent), non-RCRA wastes (13.5 percent) and batteries (11.1 percent). AMC waste categories exceeding 10 percent included containers (22.7 percent) and paints (30.3 percent). Similar comparisons between the total weight percentages by category revealed the highest-weight AMC wastes to be paints (38.6 percent) and non-RCRA (16.1 percent); the highest-weight percentages for non-AMC wastes were POLs (23.4 percent), solvents (15.9 percent), and non-RCRA (11.4 percent).

Unit cost comparisons between similar non-AMC and AMC CLIN categories (Table 14) indicate some large differences in average disposal costs per kilogram for each. Unit costs were calculated for all CLIN transactions reported by weight or specified volume. CLINs reported with units of "each," bottle, box or tube were not included in the weight totals. Data for all CLINs (regardless of unit) were included in the cost and number of transaction totals. Therefore, the categories that were mostly reported in units other than weight or volume may appear to have higher unit disposal costs in Tables 13 and 14 because the unit cost per kilogram was calculated by dividing the total disposal cost by the total computed weight. The greatest discrepancies between non-AMC and AMC unit costs for the categories designated in Table 14 are for PCBs (\$0.96/kg vs. \$4.05/kg), batteries (\$6.07/kg vs. \$2.79/kg), medical items (\$4.24/kg vs. \$9.83/kg), metal plating and stripping wastes (\$2.12/kg vs. \$0.58/kg), and reactives (\$3.04/kg vs. \$0.29/kg). Differences in relative distribution of specific CLINs within the same categories for non-AMC wastes and AMC wastes may contribute to these discrepancies, as may differences in estimated amounts per contract. There are also major differences in average unit cost between non-AMC and AMC CLINs within the same DRMS waste category. This can be seen by comparing line items between Appendices F and G.

The highest unit costs in the non-AMC waste categories are for compressed gas cylinders (\$12.44/kg), batteries (\$6.07/kg), medical items (\$4.24/kg), containers (\$2.77/kg), reactives (\$3.04/kg) and metal plating/metal stripping (\$2.12/kg). The highest unit costs in the AMC waste categories are for compressed gas cylinders (\$10.10/kg), containers (\$2.91/kg), medical items (\$9.83/kg), batteries (\$2.79/kg), PCBs (\$4.05/kg) and medical items (non-RCRA) (\$5.84/kg).

Other important comparisons can be made between non-AMC and AMC waste data from Table 14.

- AMC data report substantially more of the following (in terms of weight) than non-AMC data: acute hazardous waste (677,388 kg vs. 376,881 kg), containers (403,573 kg vs. 285,756 kg), corrosives-acids (368,211 kg vs. 120,419 kg), corrosives-bases (641,215 kg vs. 69,694 kg), metal plating/metal stripping (46,008 kg vs. 12,655), paints (5,943,031 kg vs. 235,826 kg), pesticides (373,174 kg vs. 86,265 kg), reactives (460,170 kg vs. 2955 kg) and non-RCRA wastes (2,480,676 kg vs. 664,551 kg). The difference in the weight of paint wastes is the single greatest difference between AMC and non-AMC data.
- Non-AMC data report substantially more of the following items (in terms of weight) than AMC data: battery waste (191,960 kg vs. 9820 kg), spill residue waste (190,447 kg vs. 103,697 kg), photography waste (19,239 kg vs. 4798 kg), compressed gas cylinders (6782 kg vs. 266 kg), ignitable wastes (135,612 kg vs. 61,983 kg), medical items (2,722 kg vs. 208 kg), toxic wastes (120,681 kg vs. 7430 kg) and POL (1,371,121 kg vs. 1,243,172 kg).
- POLs, solvents, extraction process (EP) toxics, containers, and non-RCRA wastes contribute significantly to disposal costs at both AMC and non-AMC installations.
- Compressed gas cylinders and batteries are primarily non-AMC installation disposal problems.
- The overall average unit disposal cost is higher for non-AMC (\$1.13/kg) wastes than for AMC wastes (\$0.95/kg).
- The overall average weight per non-AMC transaction is 375 kg, compared to an overall average weight of 1217 kg for AMC transactions—a factor of about 3.2 times greater.

Table 15 illustrates cost variability within specific CLINs for AMC wastes. This comparison is based on data from the first three quarters of FY88. While non-AMC installations reported 63 CLINs with unit cost differences of at least \$10.00, there were only 12 AMC CLINs with this cost difference. Miscellaneous CLINs and CLINs that included containers accounted for most of these items. For AMC data, 11 out of 12 CLINS and 7 of 12 CLINs, respectively, were miscellaneous wastes or containers. The amount of cost variability for AMC wastes was considerably smaller than for non-AMC wastes. Nine of the 10 non-AMC CLINs in Table 3 had unit cost variabilities of \$30 or more, while only one CLIN in Table 15 had a unit cost variability of \$30. The cost variability indices (the cost difference divided by the average cost) for the AMC wastes were also considerably smaller than the non-AMC wastes. CLIN 6004 (miscellaneous non-RCRA wastes) had the largest index (8.85) for AMC wastes.

In Table 16 (AMC) the three CLINs with the highest unit disposal costs have larger units (tons, yards, and drums). Similarly for non-AMC wastes in Table 4, the three CLINs with the highest unit disposal cost also have units of drums and yards.

There is little duplication of CLINs in the comparable AMC and non-AMC summary tables. Two of the same CLINs appear on Tables 4 and 16 for maximum unit disposal cost (2133 and 5502); three of the same CLINs appear on Tables 17 and 18 for highest average unit cost (2133, 5502, and 0001); only one CLIN, 4502, is on both Tables 3 and 19, the highest cost variability between maximum and minimum unit costs. It is unclear why more duplication of CLINs on these "top ten" lists did not occur. It is possible that the differences between estimated quantities for AMC and non-AMC contracts is a factor. Another possibility is that differences occur in CLINs between contracts serving AMC and non-AMC installations. This is reflected in differences of weights within the same CLINs (Tables 5 and 9) and differences in number of transactions per CLIN (Tables 4 and 8). There are few duplications.

Table 15

CLINs With \$10.00 or Greater Unit Disposal Cost Difference (AMC Installations)

CLIN	Unit*	Maximum Cost, \$	Minimum Cost, \$	Cost Difference, \$	Cost Difference
<u> </u>	<u> </u>	3007 4	33337 7	2222020000	1874. 0000
0001	ea	30.00	0.00	30.00	3.60
0002	dm	17.00	7.00	10.00	0.60
0002	ea	18.00	0.00	18.00	1.90
1305	gl	10.00	0.00	10.00	4.20
1651	ea	16.33	1.00	15.33	2.79
2305	gl	11.99	0.00	11.99	4.33
3105	gl	10.36	0.05	10.31	4.14
3305	gl	10.36	0.00	10.36	4.09
4502	ea	13.50	1.00	12.50	1.79
5602	ea	18.00	4.75	13.25	1.45
5603	ea	18.00	8.00	10.00	0.95
6004	lb	10.20	0.20	10.00	8.85

<sup>&#</sup>x27;ea = each; dm = drum; gl = gallons; lb = pounds.

Table 16

CLINS With Highest Unit Disposal Cost (AMC Installations)

		Maximum
CLIN	Unit*	Cost, \$
0381	tn	315.00
2133	yd	195.00
5502	dm	162.00
5502	dm	150.00
0040	ea	100.00
0001	ea	30.00
4501	ea	25.50
5600	gm	25.00
0001	dm	20.00
2300	1b	20.00
2300	qt	20.00
3100	pt	20.00
0002	ea	18.00
5602	ea	18.00
5603	ea	18.00
5603	oz	18.00

<sup>\*</sup>tn = ton; yd = yard; dm = drum; ea = each; gm = gram; lb = pound; qt = quart; pt = pint; oz = ounce.

<sup>\*</sup>The average costs used in this calculation can be found in Appendix G.

Table 17

Top 10 CLINs With Highest Average Unit Disposal Cost (Non-AMC Installations)

CLIN	Unit*_	Average Unit Cost, \$
0092	dm	528.59
5502	dm	236.76
2133	yd	195.00
0017	gl	76.29
0151	ea	30.00
0002	ea	25.00
3103	ea	25.00
5600	pt	25.00
3400	ea	21.33
0001	ea	20.53

dm = drum; yd = cubic yard; gl = gallon; ea = each; pt = pint.

Table 18

Top 10 CLINs With Highest Average Unit Disposal Cost (AMC Installations)

CLIN	Unit*	Average Unit Cost, \$
0381	tn	315.00
2133	yd	195.00
5502	dm	162.00
0040	ea	100.00
4501	ea	25.50
5600	gm	25.00
0001	dm	20.00
2300	lb	20.00
2300	qt	20.00
3100	pt	20.00

tn = ton; yd = yard; dm = drum; ea = each; gm = gram; lb = pound; qt = quart; pt = pint.

Looking at cost variability (Table 2) for non-AMC CLIN categories, pesticides (CLINs 3400 - 3699) and solvents (CLINs 4500 - 5499) had five and six CLINs, respectively, with unit cost differences of \$10.00. No AMC CLIN category had more than two individual CLINs with unit cost differences of \$10.00 (Table 15).

Tables 20 and 21 provide a list of CLINs that were included in the database but are not listed in the Master CLIN Lists provided by DRMS. They account for very little cost and do not alter the general conclusions about Army hazardous waste disposal. The items in these tables account for the differences between the totals of all categories in Table 14 and totals for the complete database.

Table 19
CLINs With Highest Disposal Difference (AMC Installations)

CLIN	Unit*	Maximum Cost, \$	Minimum Cost, \$	Cost Difference, \$
0001	ea	30.00	0.00	30.00
0002	ea	18.00	0.00	18.00
1651	ea	16.33	1.00	15.33
5602	ea	18.00	4.75	13.25
4502	ea	13.50	1.00	12.50
2305	gl	11.99	0.00	11.99
3305	gl	10.36	0.00	10.36
3105	gl	10.36	0.05	10.31
0002	dm	17.00	7.00	10.00
1305	gl	10.00	0.00	10.00
5603	ea	18.00	8.00	10.00
6004	lb	10.20	0.20	10.00

<sup>&#</sup>x27;ea = each; gl = gallon; dm = drum; lb = pound.

Table 20
CLINs Not on Master CLIN List
(Non-AMC Installations)

Contract No.	CLIN	Total Cost, \$
DLA200-87-D-0052	1013	20.00
DLA200-87-D-0003	1063	1,746.00
DLA200-87-D-0038	1039	89.70
DLA200-87-D-0044	7128AL	1,170.00
DLA200-87-D-0044	7129AL	1,795.50
DLA200-87-D-0044	7129AL	654.50
DLA200-87-D-0044	7132AL	360.00
DLA200-87-D-0044	7132AN	1,635.00
DLA200-87-D-0044	7129AA	337.44
DLA200~87-D-0044	7129AA	323.75
DLA200-87-D-0029	6501	<u>51.30</u>
GRAND TOTAL		8,183.19

NOTE: These CLINs appear in the computerized DRMS database but not on the Master CLIN List.

Table 21
CLINs Not on Master CLIN List
(AMC Installations)

Contract No.	CLIN	Total Cost, \$
DLA200-87-D-0024	6810	115.00
DLA200-87-D-0044	7131	1.20
DLA200-87-D-0044	7128	. 60
DLA200-87-D-0044	7131AJ	504.00
DLA200-87-D-0044	7131 <b>A</b> J	537.30
DLA200-87-D-0044	7131AJ	436.50
DLA200-87-D-0044	7128AJ	100.80
GRAND TOTAL		1.695.40

NOTE: These CLINs appear in the computerized DRMS database but not on the Master CLIN List.

#### 3 HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES

### **Locating TSD Facilities**

A fundamental aspect of the Army's waste management decentralization is the identifying of contractors that installation waste managers can employ as an alternative to DRMS. Although many AMC installations have frequently used contractors to dispose of the special hazardous wastes associated with their Army mission, TRADOC and FORSCOM (non-AMC) installation waste management personnel may need guidance locating appropriate TSD facilities. The resources used in this research for contacting approved TSD facilities is summarized briefly below.

Every state has a department or office that regulates hazardous waste disposal. In this research, the hazardous materials offices of nine states were contacted and asked to provide listings of approved TSD contractors. States in which several TRADOC or FORSCOM installations are located were chosen: California, Texas, North Carolina, South Carolina, Virginia, Arkansas, Kentucky, and Oklahoma. Each state sent a list of TSD facilities or provided information about how to locate such facilities.

Directories of commercial TSD facilities were also consulted in this task:

- Directory of Commercial Hazardous Waste Management Facilities, National Technical Information Service (NTIS) EPA/530-SW-87-024, and
- Hazardous Waste Services Directory (J. J. Keller and Associates).

There are several other readily available sources of information about TSD facilities, including:

- Industrial and Waste Management Firms, Environmental Information Limited, 7400 Metro Blvd., Minneapolis, MN 55435.
- Hazardous Waste Data Management System, NTIS PB 88-914-300. This is an on-line database listing facilities required under RCRA to notify the U.S. Environmental Protection Agency (EPA) of hazardous wastes they handle.

Information provided in TSD directories generally includes a list of services provided (e.g., available treatment methods, transportation services, disposal methods). Directory entries also include point of contact, address and phone number of disposal site and business office, EPA permit numbers, and types of waste handled. Directories may also be cross referenced for easy use. By contrast, the TSD information provided by state offices for this research contained far less detail, usually only addresses, EPA permit numbers, and facility designation (i.e, treatment, storage, or disposal).

#### **Analysis of TSD Facility Costs**

In order to analyze the criteria used by TSD contractors to estimate disposal costs, a representative list of potential TSD contractors generally available and interested in Army hazardous waste (HW) disposal was compiled. A questionnaire was developed and used to collect information over the telephone and through personal interviews with facility managers and sales staffs. The questionnaire included both simple-answer questions (e.g., yes/no, multiple choice) and open-ended questions in which the respondent was asked for an opinion. A copy of the questionnaire is provided in Appendix H.

Interviews were sought with TSD facility contractors identified from the DRMS waste disposal bidder lists. Since the focus of this study was on TRADOC and FORSCOM rather than AMC, contractors were selected from states hosting several TRADOC or FORSCOM installations: California, Georgia, Hawaii, Kentucky, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Washington.

A list of the 26 TSD facilities that responded to the survey is included in Appendix I. Each of them is a current or potential contractor for Army HW disposal services. It should be noted that these 26 contractors actually represent more than 26 TSD locations since several firms have multiple locations or operations.

The report on the survey's findings contains both anecdotal information—qualitative, opinion-based data—and statistical information. Appendix J reprints the researchers' report of the survey's findings.

#### Survey Findings—Summary

#### Services Provided

The contractors surveyed handle a diverse range of waste types and offer numerous treatment and disposal techniques. Facilities that do not treat, store, or dispose of certain wastes due to permit limitations sometimes handle them through an approved subcontractor.

On-site treatment and disposal services available to installation waste program managers include fuel blending, decanting, neutralization, detonation, cylinder decommission, deep-well injection, land disposal, impoundment, containerization, reclamation, separation, incineration, solidification, chemical treatment, filtration, carbon adsorption, recycling, repackaging, volume reduction, consolidation, and fixation.

Many firms contacted have (or have applied for) HW transportation permits. Several that do not advertise transportation as a service maintain that they can provide it if necessary. Only a few specialty firms have the capabilities and permits for hauling radioactive materials, explosives, and certain medical wastes.

#### Disposal Price Trends

Over 96 percent of the firms surveyed reported cost increases in recent years. A common reason cited was increasingly stringent Federal regulations for the pretreatment of "hard hammer" wastes—those for which treatment before disposal is required by RCRA. Other factors cited included rising insurance premiums, higher landfill fees, and the rising cost of disposal for highly hazardous substances such as cyanide, dioxins, PCPs, radioactives, infectious medical wastes, heavy metal sludges, and explosives.

The average price increase estimated by respondents was 9.6 percent over the previous year. The average estimated price increase over the previous 3 years was 53 percent, and for the previous 5 years it was 112 percent. One firm that specializes in solvent recycling, however, reported a price decrease of 10 percent over the last 5 years due to significant advancements in solvent recycling technology. Moderation of price increases was reported for some wastes (e.g., clean, blendable, burnable liquids), and incineration cost increases have also slowed slightly due to technological advances. More stringent emission regulations and growing demand for incineration capacity, however, could spur more price increases.

#### General Issues in Waste Disposal Pricing

Survey respondents were asked to list major factors that help determine price. Solvent recyclers and fuel blenders cited water content and the percentage of solid impurities in waste fuels and solvents, due to the extra processing costs they cause. Deep-well injection contractors also stated similar concerns.

#### Other issues cited include

- · chemical and physical properties of the waste
- · the amount of transportation to disposal sites required
- analysis time and laboratory fees
- containers requiring repackaging
- client requests for unscheduled pickups, unusually frequent pickups, or pickup of small quantities.

Most firms interviewed did not quote a minimum fee per pickup, but several said it was impractical to do a job for less than \$300 to \$500.

## Specific Factors in Waste Disposal Pricing

Survey respondents were asked to rate a number of variables (as major, moderate, or minor) for their degree of impact on pricing. The responses are reported in Table 22, expressed as a percentage of all responses. Appendix J includes a brief explanation or analysis for each item.

As can be seen in Table 22, the top five factors influencing pricing are

- · type of waste
- Federal regulations
- · waste concentration
- waste quantity
- material phase.

Table 22
Significance of Disposal Cost Factors

	Pricing Significance				
	<u>Major</u>	<u>Moderate</u>	Minor		
Waste Quantity	60%	12%	28%		
Type of Waste	96%	0%	48		
Transport Distance	28%	16%	56%		
Material Phase	60%	20%	20%		
(e.g., solid, liquid, sludge)					
Container Size	40%	20%	40%		
Local Regulations	8%	12%	808		
State Regulations	40%	24%	36%		
Federal Regulations	72%	12%	16%		
Manner of Packaging	36%	24%	40%		
Condition of Container	36%	16%	48%		
Waste Concentration	72%	12%	16%		

#### Surcharges

The firms surveyed reported that surcharges are commonly assessed for covering the costs of extra handling, special handling, and hidden expenses. Ways cited for clients to avoid common surcharges included segregating waste streams, prescheduling of service, and preanalysis of materials.

Surcharges are often imposed by fuel-blending TSDs for waste fuels with high content of water, chlorine, or solid impurities. Special toxicity problems spur surcharges to cover the cost of protective clothing and closed atmosphere breathing devices for workers, or sophisticated handling equipment.

#### **Contracts**

Most TSD contractors require some form of written agreement with the client. Regardless of what they are called, they all basically create a legally binding contract between contractor and client. Appendix L contains two representative service agreements (SAs) received from survey respondents.

In general, SAs contain clauses covering terms of payment, period of performance, insurance, cancellation, circumstances beyond control, confidentiality, governing law, ownership of waste, written notice between parties, pre-inspection and analysis, and indemnification.

Common indemnification clauses protect both contractor and client. Generally, client indemnification protects the contractor from any client breach of contract, negligence, or willful act or omission resulting in personal injury or death, property damage, or environmental harm. Contractor indemnification protects the client from losses due to the contractor's failure to comply with Federal, State, or local laws, and from any claim for loss or damage to property and person caused by the contractor's negligence or willful act or omission while performing its contractual obligations.

Some form of warranty was included in about 85 percent of SAs examined. In general, the warranties guarantee that the contractor

- has the necessary business, professional, and technical expertise to handle, store, transport, treat, and dispose of HW
- has the equipment, plant, and personnel required to perform
- has the ability and license to handle, store, transport, treat, and dispose of waste materials in full compliance with all laws
- will notify the client if any licenses, permits, or authorizations are lost or in jeopardy during the term of the agreement.

In general, most contractors surveyed said that DRMS RFPs were complicated and demanding compared to similar private sector contracts. DRMS frequently requests firm, fixed rates for hundreds of different wastes (CLINs) based on estimated totals (which may not be realistic) over the life of the contract. Many respondents perceived undue hardships in meeting DRMS standards for documentation and recordkeeping, and cited complex paperwork as a major difference between DRMS and private sector contracts. Although interested in bidding on Army contracts, most of those surveyed said contracting with the Government would require them to add services, and, therefore, increase costs for staffing and general overhead. DRMS is continuing to change and improve its RFP and contract language in an attempt to increase competition and protect the government while being fair to the contractors.

Additional information about SAs can be found in Appendix J, and two SAs are reproduced in Appendix K.

#### 4 RTDS DATA FOR HAZARDOUS WASTE AND MATERIALS

An Integrated Disposal Management System (IDMS) transaction history extract covering all Army transactions for FY87 and FY88 was obtained from DRMS to analyze reutilization, transfer, donation, and sales (RTDS) data. Included for both fiscal years were separate printouts for hazardous materials (HM) receipts, sales, and issues by DRMO, and hazardous waste receipts by DRMO. Table 23 summarizes the data by number of transactions and dollar value. It should be noted that the dollar value was based on the virgin material price.

In all categories there were increases in FY88 over FY87. When hazardous materials sales and issues are combined (in terms of number of items and composite dollar value) and compared to hazardous materials receipts, the percentages are large, implying that DRMS sells or reissues most of what it receives (Table 24). However, further research is required to analyze the Army's actual benefit from RTDS activities because the data did not include any detail and the dollar values were based on virgin hazardous material prices rather than actual price.

An analysis of the data in Table 24 indicates that the dollar value of sales and issues is substantially higher than the corresponding percentages based on number of items. One possible explanation for this discrepancy is the fact that sales figures represent actual amounts while HM prices are estimates provided by whoever turns in the material. Since there is necessarily a passage of time between when an item is received and when it is sold or issued, a comparison of FY88 issues and sales to FY87 receipts was also made and included in Table 24. The percentages for this comparison are higher than for the same-year comparisons.

Because the data are limited, one can make only very general and tentative conclusions. The data indicate more DRMS activity in FY88 than in FY87 in receipts of both HW and HM, and sales and issues of HM. Because of the time that necessarily passes between receipts and sales and issues, however, it cannot be concluded that DRMS was more effective in selling and issuing HM in FY88 than in FY87. Because of the uncertainty about the real value of HM receipts, it is probably better to assess sales/issue efficiency based on the numbers of items sold and issued rather than on dollar value of these items.

A spot check of six DRMOs was made to discover whether specific items reported as received were subsequently reported as sold or issued. None of the items sold or issued in FY88 had the same designation as items received in FY88 or FY87. This raises questions about the validity of the IDMS data: it cannot be considered accurate enough for the purposes of this research.

The reported price information for HM and HW receipts is also questionable because the organization turning in the HM assigns the price—DRMO only questions prices that appear to be obviously estimated too high or too low. No check of current item prices is made by the DRMO or DRMS, and apparent errors sometimes find their way into the database. In FY88, for example, six items turned in at the Fort Bragg DRMO reportedly were valued in error at \$131,276,400. These items were numbered 010363495, 010946536, and 010342239, all in Federal Stock Class 6135—nonrechargeable batteries. The current catalog price of each of these items (to the nearest dollar) is \$50, \$18, and \$31, respectively. A DRMS staff member identified these entries as a probable input error made at DRMS. If the \$131 million is assumed to be an error and subtracted from the FY88 HW dollar value, the FY88 total becomes \$19 million instead of \$150 million. This appears to be a

DRMS data refers to both "hazardous materials" and "hazardous waste." HM refers to materials classified as hazardous by the U.S. Department of Transportation; HW refers to waste classified as hazardous by the EPA. The original DRMS terminology, although not used previously in this report, is preserved to be consistent with the DRMS source data.

Table 23
DRMS IDMS Summary for Army

	No. Items	\$ Value in Millions
HM RECEIPTS		
FY88 FY87	32,153 28,515	56.6 51.2
HM SALES		
FY88 FY87	12,676 8517	39.5 30.5
HM ISSUES		
FY88 FY87	4705 3203	4.4 3.1
HW RECEIPTS		
FY88 FY87	23,031 12,224	19* 9.3

<sup>\*</sup>Corrected value deleting \$131 million DRMS input error.

Table 24

DRMS Sales/Issues as Percentages of Receipts

	No. <u>Items</u>	<u>Value</u>
FY88 HM sales and issues divided by FY88 HM receipts	54.1%	77.6%
FY87 HM sales and issues divided by FY87 HM receipts	41.1%	65.6%
FY88 HM sales and issues divided by FY87 HM receipts	61.0%	85.7%

more realistic figure and agrees more closely with the Army's total contract HW disposal cost of \$21 million for FY88 (Table 14).

According to DRMS, there is no automated method for tracking which materials are ultimately disposed of by contract as HW. Currently there is no method for sorting IDMS data into the same categories or CLINs used in disposal contracts. In addition, the data is not in a form that can be sorted automatically by MACOM and installation.

#### 5 CONCLUSIONS AND RECOMMENDATIONS

### **Disposal Costs**

The Army generates waste in many DRMS categories and pays a substantial amount of money on DRMS contracts to dispose of it. Table 14 shows that the Army spent over \$21 million in FY88 for HW disposal. Table 14 also shows that AMC costs for DRMS disposal were over twice as high as non-AMC costs, and AMC DRMS disposal weights were almost three times as high as non-AMC weights.

Based on the first three quarters of FY88 data, the following CLINs required the highest total disposal cost:

- Non-AMC (Table 7): lithium-sulfur dioxide batteries, containers, contaminated waste oil, PCP wood, and spill debris
- AMC (Table 11): PCB transformers, containers, PCP wood, heavy metal contaminated oil, and oil sludge.

Product categories requiring the highest disposal costs during FY88 (Table 14) for non-AMC installations included solvents, batteries, containers, non-RCRA wastes, and POL wastes. Those for AMC included paint waste, non-RCRA wastes, PCBs, containers, and PCP wood. TRADOC and FORSCOM appear to have substantially more batteries, spill residues, toxics, medical items, and compressed gas cylinders to dispose of than does AMC. It is recommended that the Army conduct research on how to reduce the quantities and disposal costs of each specific waste stream of high disposal cost.

It is recommended that hazardous waste management data covering a longer period of time (e.g., 3 years) be analyzed to provide a more accurate picture of disposal costs. Included in that study should be data traced back to (or obtained from) the HW generator so the Army may discover and evaluate opportunities for HW minimization (e.g., wider use of container linings to promote container reuse, more aggressive solvent recycling programs).

#### **Waste Disposal Databases**

The DRMS HW disposal database provides a useful source of data for analysis. There are certain limitations in the current database that, if eliminated, would expand its usefulness to Army users.

Recommendations for improving the DRMS waste disposal database are:

- Define CLINs more clearly. For example, several CLINs were assigned to cutting oil, but the differences among them are not clear.
- Use uniform quantity units for all CLINs to facilitate data analyses. As an alternative, a built-in conversion function could be added to the database. Currently, unit quantities in the database are highly varied and include such unconventional units as boxes, bottles, and "each." DRMOs and Army installations should make a concerted effort to use the master CLIN list units.
- Link CLINs to EPA hazardous waste codes to improve the efficiency of EPA reporting activities. Likewise, link CLINs to the National Stock Number (NSN) system to enable the waste generators to tie the DRMS hazardous waste data to material data.

 Identify the waste generator by military installation, MACOM, and MSC in addition to DODAAC.

The IDMS transaction history extracts provide little useful information for HM/HW analysis by type, location (other than DRMO), or command.

It is recommended that RTDS cost data reflect actual costs and sale prices rather than virgin material costs. The quantity of HM disposed of should also be included in IDMS data.

RTDS data in Table 23 provide a very rough estimate of the Army's financial performance in the receipt, sale, and issue of HM. There is no reliable system for tracking the receipt and sale of specific items, however, so a reliable evaluation of DRMS effectiveness in this area is not now possible. Recommend a thorough analysis of the RTDS data in future to recognize the DRMS' accomplishments in this area.

Further study is recommended to determine how the Army can more effectively procure and manage hazardous materials. By analyzing IDMS disposal data, HW could be traced to its source of generation. This undoubtedly would reveal a number of potential opportunities for further reduction of HW generation.

#### **Disposal Contracts**

Many private-sector TSD contractors believe DRMS hazardous waste disposal contracts are significantly more complicated and lengthy than typical private sector contracts. They suggest the Government's ability to estimate specific waste quantities accurately and eliminate or reduce the number of "miscellaneous" or "catch-all" CLINs are key factors in getting more competitive bids and reducing costs. It will be critical for the Army to provide more accurate data at the time of turn-in and for the DRMO/DRMS to analyze and use the data effectively. If contracts set maximum and minimum quantities for more CLINs, more competitive pricing would result. Contracts written for larger amounts of waste and wastes packaged in larger units (drums or bulk tanks instead of smaller containers) generally result in better unit prices. Conversely, contracts that require the contractor to pick up small quantities of waste at numerous remote points escalate costs. TSD contractors generally prefer to bid on RFPs for larger quantity disposal, and some larger contractors will not bid on small quantity disposal with short-notice pickup times.

It would be useful to convene a workshop of TSD industry leaders to hear the industry perspective in detail and assess their recommendations concerning HW disposal contracting.

#### METRIC CONVERSION TABLE

1 cu yd = 0.7646 m<sup>3</sup> 1 gal = 3.78 l 1 in. = 25.4 mm 1 lb = 0.453 kg 1 oz = 0.02957 l 1 pt = 0.4732 l 1 qt = 0.9463 l 1 ton = 907.1848 kg

### APPENDIX A:

### MASTER CLIN LIST

Table A1

Master CLIN List Categories

Category	CLIN	Note
Acute hazardous waste	0001 - 0499	EPA P list
Batteries	0500 - 0599	
Compressed gas cylinder	0600 - 0799	
Container	1200 - 1299	
Corrosives-Acids	1300 - 1650	
Corrosives-Bases	1651 - 1999	
EP toxic	2000 - 2299	
Ignitable	2300 - 2799	
Medical items	2800 - 2899	
Metal plating	2900 - 3099	
Paints	3100 - 3399	
Pesticides	3400 - 3699	
Photography wastes	3700 - 3899	
POL	3900 - 4199	
Reactives	4200 - 4499	
Solvents	4500 - 5499	
Spill residues	5500 - 5599	
Toxics	5600 - 5899	EPA U list
Chemical defense equipment	5900 - 5999	
Non-RCRA	6000 - 6500	Asbestos
Medical items (Non-RCRA)	8000 - 8099	
PCBs	7000 - 7099	

NOTE: The order that the CLIN categories are reported in above, with the PCB category out of numerical sequence, is the form in which DRMS provided the Master CLIN List in Tables A2 and A3.

# Table A2

# **DRMS Master CLIN List**

ITEM NO.	Supplies/Services	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
0001 - 0499	ACUTE HAZARDOUS WASTE (40 CFR 261.33(e), P-listed and state regulated waste)	n/a			
0001	Acute Hazardous Weste. Misc in containers less than i gl		gl		
0002	Acute Hasardous Waste, Misc in containers less than 7 lb		16		
0003	Deleted - 0001				
0004	Deleted - 0002				
0005	Acute Hazardous Waste, Misc		ΙÞ		
0006	Acute Hazardous Waste, Misc		<b>g1</b>		
0007	Aerosols, Acute Hazardous Waste		16		
0008	Beryllium Dust		16		
0009	Isocyanic Acid, methyl ester		gl		
0010	Sodium Cyanide		16		
0011	Sodium Cyanide		gl		
0012	Calcium Cyanide		<b>g1</b>		
0013	Hydrogen Cyanide		61		
0014	Silver Cyanide		gl		
0015	Potassium Cyanide		1 <b>b</b>		*********
0016	Barium Cyanide		15		
0017	Epinephrine		<b>g1</b>		
0018	Isocyanic Acid, methyl ester		15		<del></del>
0019	Sodium Cyanide		16		
0020	Calcium Cyanide		16		at"
0021	Hydrogen Cyanide		16		
0022	Silver Cyanide		16		<del></del>
0023	Epinephrine		16		<del></del> .
0500 - 059	O BATTEBIES	n/a			
0500	Batteries, Misc		16		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
0501	Batteries, Lithium-Sulfur-Dioxide		1 <b>b</b>		
0502	Batteries, Magnesium (STATE REGULATED)		16		****
0503	Batteries, Nickel Cadmium		16		
0504	Batteries, Mercury		16		
0505	Batteries, Mercury, in water and winegar		16		
0506	Batteries, Aid to Navigation (ATON) potassium hydroxide and zincate		1 b		
0507	Batteries, Alkaline		1 <b>b</b>		
0508	Batteries, Lead Acid		1 <b>b</b>		
0509	Batteries, Silver-Zinc		16		
0510	Batteries, Zinc-Alkali		16		
0511	Batteries, Lead-Acid, drained		16		
0512	Batteries, Nickel-Iron		16		
0513	Batteries, Thermal (spent)		1 <b>b</b>	********	
0600 - 0799	COMPRESSED GAS CYLINDERS	n/a			
0600	Compressed Gas Cylinders, Misc		1 <b>b</b>		
0601	Acetylene		16		
0602	Butane		1 <b>b</b>		
0603	Propane		16		
0604	Chlorine		16		
0605	Methyl Bromide		1 <b>b</b>		
0606	Sulfur Dioxide		1 <b>b</b> -		
0607	Ammonia	:	lb .		
0608	Chlorine Triflouride	1	lb .		
0609	Carbon Monoxide	1	lb .		
0610	Ethylene Oxide	1	l <b>b</b>		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
0611	Methyl Chloride		1 <b>b</b>		
0612	Refrigerants .		1ъ		
0613	Hydrogen .		16		
0614	Methylacetylene-Propadiene stabilized (MAPP)		16		~~~~~
1200 - 1299	CONTAINERS	n/a			
1200	Containers, 1 gl or larger which previously contained P-listed wastes. CLIMS 0001-0499		1 <b>b</b>		
1201	Containers, I gl or larger, with more than I inch of the wastes described in CLIMS 0500-5999		1 <b>b</b>		
1202	Containers, less than 1 gl which previously contained P-listed wastes. CLIMS 0001-0499 (uncrushed or crushed)		1Ъ		
1203	Containers, STATE REGULATED, with less than I inch of wastes described in CLIMS 0500-5999 (uncrushed or crushed)		1 <b>b</b>		# <del>===</del>
1300 - 1650	CORROSIVES-ACIDS (40 CFR 261.22, and 40 CFR 261 Subpart D and state regulated)	n/a			
1300	Acids, Misc in containers less than 1 gl		<b>g</b> 1		
1301	Acids, Misc in containers less than 7 lb		1ъ		*********
1302	Deleted - 1300				
1303	Deleted - 1301				
1304	Corrosives Acids, Misc		16		+
1305	Corrosives Acids, Misc		gl		
1306	Acetic	;	<b>g1</b>		<del></del>
1307	Acetic, Glacial	i	gl .		
1308	Ammonium Acid Fluoride (ammonium biflouride)		lb .		
1309	Battery Electrolyte (sulfuric acid)	1	<b>51</b> .		
1310	Chromic (chromium trioxide)	1	<b>51</b> .		
1311	Hydrochloric .	1	<b>31</b> .		
1312	Hydrofluoric .	ŧ	11		
1313	Nitric	8	1		

ITEM MO.	SUPPLIES/SERVICES	EST.QTT.	UNIT	UNIT PRICE	AMOUNT
1314	Phosphoric (orthophosphoric)		<b>61</b>		
1315	Phenoisulfonic (carbon removing compound)		<b>g</b> 1		
1316	Sulfamic (scale remover)		gl		
1317	Sulfuric		gl	********	
1318	Zinc Chloride		16		
1319	Sodium Bisulfite (sodium acid sulfite)		gl		
1320	Zinc Chloride		gi		
1321	Sodium Bisulfate (sodium acid sulfate)		gl		
1322	Boric, Granular		16		
1323	Ferric Chloride		1b -		
1324	Sodium Fluoride		1 <b>b</b>		
1325	Hydrofluosilicic Acid		gl		
1326	Sodium Bisulfate (sodium acid sulfate)		1 <b>b</b>		
1327	Deleted - 1314				
1328	Sulfamic Acid (scale remover)		1 <b>b</b>		
1329	Formic Acid		<b>g1</b>		
1330	Tannic Acid		gl		
1331	Ammonium Acid Flouride (ammonium biflouride)		gl		~~~~~
1332	Acetic		16		
1333	Battery Electrolyte (sulfuric acid)		16		
1334	Chromic (chromium trioxide)		16		
1335	Hydrochloric .		16		
1336	Hydrofluoric		1 <b>b</b> ·		
1337	Nitric .		16	~~~~~~	
1338	Phosphoric (orthophosphoric)		1 <b>b</b>		
1339	Phenogulfonic (carbon removing compound)		16		

	MADIES VEIS DIOI	0/00/69			
ITEM NO.	SUPPLIES/SERVICES	RST.QTY.	UNIT	UNIT PRICE	AMOUNT
1340	Sulfamic (scale remover)		1b		
	•				
1341	Sulfuric		16	~~~~~	
1342	Sodium Bisulfite (sodium acid sulfite)		1 <b>b</b>	~*******	
1343	Sodium Bisulfate (sodium acid sulfate)		16		
1344	Hydrofluosilicic Acid		1ъ	********	
1345	Formic Acid		16	******	
1346	Tannic Acid		16		
1347	Ammonium Acid Flouride (ammonium biflouride)		1 <b>b</b>		
1348	Acid Solution with Methylene Chloride, Chromic Acid		16		
1349	Chromic Acid contaminated with chromates		1Ъ		
1350	Nitric Acid with silver		1 <b>b</b>	*******	
1351	Phosphoric Acid with kerosene (cleaning compound)		1 <b>b</b>		
1352	Oakite 32 - contains hydrochloric acid		1ъ		
1353	Nitrating Acid Liquids in bulk tanks		16		
1354	Nitrating Acid		1 <b>b</b>		
1355	Aircraft Cleaning Compound (contains sulfonic acid, monoethanolamine, potassium hydroxide, sodium nitrate, and butyl cellosolve)		1b		
1356	Citric Acid may be contaminated with (but not limited to) heavy metals, Chelating Agent in bulk tanks		16		
1357	Rust Arrester (phosphoric acid and ethylene glycol)		16		
1358	Phosphoric Acid Sludge		1Ъ	1,44854444	
1359	Sulfuric Acid may be contaminated with (but not limited to) heavy metals, paints, and dirt		lb		
1360	Hydrochloric Acid may be contaminated with (but not limited to) heavy metals, paints, and dirt		lb -		
1361	Chromic Acid may be contaminated with (but not limited to) heavy metals, paints, and dirt	:	lb .		•=====
1362	Chromic Acid Sludge may be contaminated with (but not limited to) heavy metals, paints, and dirt	:	<b>.</b>		
1363	Nitrating Acid may be contaminated with	1	b .		

ITEM NO:	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	(but not limited to) heavy metals, paints, and dirt				
1364	Sodium Bisulfate (sodium acid sulfate) may be contaminated with (but not limited to) heavy metals, paints, and dirt		1 <b>b</b>		
1365	Phosphoric Acid may be contaminated with (but not limited to) heavy metals, paints, dirt, and butyl cellosolve		16		
1366	Nitric Acid Sludge		1 <b>b</b>		
1367	Sodium Bisulfate Sludge (sodium acid sulfate sludge)		16		
1368	Microstripper (acid base stripper)		1 <b>b</b>		
1369	Fitric acid may be contaminated with (but not limited to) heavy metals, paint and dirt		15		
1370	Hydrochloric Acid Sludge		16		*******
1371	Phosphoric and Chromic Acid		1 <b>b</b>		
1372	Citric Acid may be contaminated with (but not limited to) alkaline solution		16		
1373	Dimethyl Sulfoxide (DMSO) may be contaminated with (but not limited to) nitric acid		16		******
1374	Sulfuric Acid Sludge with (but not limited to) water (approx. 50%) sodium bicarb and lead sulfate		1 <b>b</b>		
1375	Water contaminated with (but not limited to) nitrating acids, petroleum products, and solvents		1 <b>b</b>	~~~~~	
1376	Red Fuming Witric Acid		16		
1377	Acetic, Glacial		1Ъ		
1550	Acid Solution with Methylene Chloride, Chromic Acid		gl		
1551	Chromic Acid contaminated with chromates	i	61		
1552	Nitric Acid with silver		<b>6</b> 1		
1553	Phosphoric Acid with kerosene (cleaning compound)	ł	<b>gl</b> .		
1554	Oakite 32 - contains hydrochloric acid	1	<b>g</b> 1		
1555	Nitrating Acid Liquids in bulk tanks	1	<b>g1</b> .	<del>vapantana</del> (	
1556	Nitrating Acid		<b>g1</b> .		
1557	Aircraft Cleaning Compound (contains sulfonic acid, monoethanolamine, potassium hydroxide, sodium nitrate, and butyl cellosolve)	1	gl.		

		2: 34: 2-			
ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUST
1558	Citric Acid may be contaminated with (but not limited to) heavy metals, Chelating Agent in bulk tanks		gl		
1559	Rust Arrester (phosphoric acid and ethylene glycol)		gl		******
1560	Sulfuric Acid Sludge		1 <b>b</b>		
1561	Phosphoric Acid Sludge		<b>g</b> 1		
1562	Sulfuric Acid may be contaminated with (but not limited to) heavy metals, paints, and dirt		<b>g</b> 1		
1563	Hydrochloric Acid may be contaminated with (but not limited to) heavy metals, paints, and dirt		gl		
1564	Chromic Acid may be contaminated with (but not limited to) heavy metals, paints, and dirt		gl		
1565	Chromic Acid Sludge may be contaminated with (but not limited to) heavy metals, paints, and dirt		<b>g1</b>	*********	
1566	Nitrating Acid may be contaminated with (but not limited to) heavy metals, paints, and dirt		gl		
1567	Sodium Bisulfate (sodium acid sulfate) may be contaminated with (but not limited to) heavy metals, paints, and dirt		gl		<del></del>
1568	Phosphoric Acid may be contaminated with (but not limited to) heavy metals, paints, dirt, and butyl cellosolve		gl		*******
1569	Witric Acid Sludge		gl		
1570	Sodium Bisulfate Sludge (sodium acid sulfate sludge)		gl		
1571	Microstripper (acid base stripper)		gl		
1572	Nitric acid may be contaminated with (but not limited to) heavy metals, paint and dirt		gl		
1573	Hydrochloric Acid Sludge		gl		
1574	Phosphoric and Chromic Acid		gl	~~~~	
1575	Chromic (chromium trioxide)		1 <b>b</b>		
1576	Citric Acid may be contaminated with (but not limited to) alkaline solution		gl		********
1577	Dimethyl Sulfoxide (DMSO) may be contaminated with (but not limited to) nitric acid		gl		
1578	Sulfuric Acid Sludge with (but not limited to) water (approx. 50%) sodium bicarb and lead sulfate	i	gl .		
579	Water contaminated with (but not limited to) nitrating acids, petroleum products,		<b>g1</b> .		

	MANUE VUID UID.	6/30/45			
ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	and solvents				
1580	Aerosols, Misc Corrosives		1 <b>b</b>	******	
1581	Red Fuming Witric Acid		gl		
1651 - 1999	CORROSIVE-BASES	n/a			
1651	Corrosive Bases, Misc in containers less than 1 gl		<b>g1</b>		
1652	Corrosive Bases, Misc in containers less than 7 lb		1 <b>b</b>		
1653	Deleted - 1651				
1654	Deleted - 1652				
1655	Corrosive Bases, Misc		1Ъ		
1656	Corrosive Bases, Misc		gl		
1657	Ammonium Hydroxide		16		
1658	Ammonium Hydroxide		gl		
1659	Sodium Hydroxide (caustic soda)		1Ъ	********	
1660	Sodium Hydroxide (caustic soda)	•	<b>g</b> 1		
1661	Sodium Hypochlorite		gl		<del></del>
1662	Potassium Hydroxide		gl		
1663	Monoethanolamine (ethanolamine)		gl		
1664	Calcium Hydroxide (caustic lime)		1 <b>b</b>		
1665	Potassium Hydroxide		16		
1666	Lithium Hydroxide		lb .		
1667	Lithium Hydroxide		g1 .		
1668	Deleted				
1669	Deleted .				
1670	Aluminum Chlorides	:	l <b>b</b>		
1671	Sodium Hypochlorite	1	lb-		
1672	Sodium Hypochlorite	1	<b>b</b> .		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
1673	Potassium Hydroxide		16		
1674	Monoethanolamine (ethanolamine)		1 <b>b</b>		
1675	Lithium Hydroxide		1 <b>b</b>	*******	
1676	Aircraft Cleaning Compound		1 <b>b</b>		
1677	Deleted - 1664				
1678	Cleaning Compound		1 <b>b</b>		
1679	Oakite 24 - contains sodium hydroxide		1 <b>b</b>		
1680	Sodium Hydroxide Sludge		1 <b>b</b>		
1681	Caustic wastes with (but not limited to) sodium hydroxide, potassium hydroxide, sodium carbonate		1 <b>b</b>		
1682	Caustic wastes with (but not limited to) sodium hydroxide, trisodium phosphate, dodecylbenzene, sodium sulfonate, water, paint, dirt, and grease		1 <b>b</b>		
1683	Alkaline solution may be contaminated with (but not limited to) heavy metals		1 <b>b</b>		
1684	Water contaminated with (but not limited to) mixed bases, petroleum products and solvents		1ъ		
1685	Oakite 160 - contains sodium hydroxide		1 <b>b</b>		
1686	Sodium Hydroxide with heavy metals		16		
1900	Aircraft Cleaning Compound		gl		
1901	Calcium Hydroxide (caustic lime)		gl		
1902	Cleaning Compound		gl		
1903	Oakite 24 - contains sodium hydroxide		gl		
1904	Oakite 160 - contains sodium hydroxide		gl		
1905	Deleted - 4730				
1906	Sodium Hydroxide with heavy metals		<b>g</b> 1		
1907	Sodium Hydroxide Sludge	,	<b>g</b> 1		
1908	Caustic wastes with (but not limited to) sodium hydroxide, potassium hydroxide, sodium carbonate	i	gl .		
	Caustic wastes with (but not limited to) sodium hydroxide, trisodium phosphate, dodecylbenzene, sodium sulfonate, water,		<b>g1</b> .		

	WWOISE CRIP FIST	6/30/6A			
ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	paint, dirt, and grease				
1910	Oxygen Breathing Apparatus Cannisters- spent-potassium hydroxide with residual potassium superoxide (cannisters approx. 4 lb each)		1 <b>b</b>	*********	
1911	Catalyst, carbon monoxide & carbon oxidizing (lithium hydroxide, copper & manganese oxide)		16	********	**************************************
1912	Alkaline solution may be contaminated with (but not limited to) heavy metals		gl	~~~~~	~~~~~
1913	Decontaminating Agent, DS-2 (ph 12.5 or greater)		gl	**********	~~~~~
1914	Decontaminating Agent, DS-2 (ph 12.5 or greater)		16		********
1915	Water contaminated with (but not limited to) mixed bases, petroleum products and solvents		gl	********	~+=====
2000 - 2299	EP TOXIC (40 CFR 261.24 and state regulated)	n/a			
2000	EP Toxic, Misc in containers less than 1 gl		gl		~~~~~
2001	EP Toxic, Misc in containers less than 7 lbs		1 <b>b</b>	*********	~~~~~
2002	Deleted - 2000				
2003	Deleted - 2001				
2004	EP Toxics, Misc		16	40000000	
2005	EP Toxics, Misc		81		
2006	Mercury		1 <b>b</b>		
2007	Mercury .		<b>g1</b>		
2008	Sodium Chromate	,	gl .		•
2009	Sodium Dichromate	ł	<b>g1</b> .		
2010	Hexavalent Chrome	:	lb .		
2011	Mercurous Nitrate	:	lb .		******
2012	Potassium Dichromate (potassium bi-chromate, red postassium chromate)	:	lb .		
2013	Sodium Dichromate	1	lb _		
2014	Mercuric Bitrate		;1 _		
2015	Mercuric Bitrate	1	<b>.</b>		
2016	Chromic Oxide	4	11 _		

		0,00,00			
ITEM NO.	SUPPLIES/SERVICES	est.QTY.	UNIT	UNIT PRICE	AMOUNT
2017	Lead Acetate		16		
2018	Potassium Chromate (potassium chromate; yellow; neutral potassium chromate)		16		
2019	Sodium Chromate		16		
2020	Cadmium Oxide pre-treatment sludge		1 <b>b</b>	******	
2021	Sodium Chromate		1 <b>b</b>		
2022	Sodium Dichromate		1 <b>b</b>		
2023	Chromic Oxide		1Ъ	777120000	
2024	Paint Waste contaminated with lead		1 <b>b</b>		
2025	Skimmer Sludge contaminated with cadium		1 <b>b</b>		
2026	Sludge contaminated with lead & mercury		1 <b>b</b>		
2027	Sludge contaminated with trivalent chrome		1 <b>b</b>		
2028	Zinc Phosphate may be contaminated with (but not limited to) heavy metals, paints, and dirt		16		
2029	Phosphate Sludge may be contaminated with (but not limited to) heavy metals, paints, and dirt		16		
2030	Zinc Phosphate Sludge may be contam- inated with (but not limited to) heavy metals, paints, and dirt		16		
2031	Aluminum Coating Solution/Sludge may be contaminated with (but not limited to) heavy metals, nitrating acids, salts, paints, and oils		16		
2032	Chrome Stripper		16		
2033	Cadmium Stripper		16		
2034	Cadmium Cyanide Wastewater		1ъ		
2035	Manganese Phosphate Sludge may be contaminated with (but not limited to) heavy metals, cyanides, nitrating acids, and solvents		16		
2036	Water may be contaminated with (but not limited to) trivalent chrome		16		
2037	Water may be contaminated with (but not limited to) emulsifier/penetrants, phenols, and heavy metals		16		
2038	Ethylene Glycol (anti-freeze) may be contaminated with (but not limited to) heavy metals, oils, dirt, and water	;	lb .		
2039	Electroplating Sludges may be contaminated with (but limited to) heavy	1	ь .		

## 8/30/89 .

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ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	metals, petroleum products, solvents, and cyanides				
2040	Corrosion Preventative may be contam- inated with (but not limited to) heavy metals		1 <b>b</b>		
2041	Plating Waste may be contaminated with (but not limited to) heavy metals		1 <b>b</b>		*****
2042	Plating Sludge may be contaminated with (but not limited to) chromium		1 <b>b</b>		
2043	Printing Room Wastewater may be contaminated with (but not limited to) cyanides and heavy metals		1 <b>b</b>	*******	******
2044	Water contaminated with (but not limited to) heavy metals, nitrating acids, gold, silver, zinc, brass, rhodium, and cobalt		16		
2045	Detergents, biodegradable, contaminated with (but not limited to) heavy metals		16	449944	
2046	Barium Chromate		1Ъ		
2047	Lead Chromate		16		
2100	Blasting Booth Dusts/Sandblast Media with heavy metals		1 <b>b</b>		<del></del>
2101	Paint Waste contaminated with lead		<b>g1</b> :		
2102	Skimmer Sludge contaminated with cadium		<b>g</b> 1		· 
2103	Sludge contaminated with lead & mercury		<b>g</b> 1		
2104	Sludge contaminated with trivalent chrome	•	<b>81</b> -		
2105	Deleted - 2361	•			
2106	Sodium Carbonate (soda ash) may be contaminated with (but not limited to) heavy metals, paints, and dirt		1Ъ		
2107	Zinc Phosphate may be contaminated with (but not limited to) heavy metals, paints, and dirt	;	gl		**************************************
2108	Phosphate Sludge may be contaminated with (but not limited to) heavy metals, paints, and dirt	ł	<b>g1</b>		
2109	Zinc Phosphate Sludge may be contam- inated with (but not limited to) heavy metals, paints, and dirt	1	gi .		
2110	Manganese Phosphate may be contaminated with (but not limited to) heavy metals, paints, and dirt	:	lb.		
2111	Aluminum Coating Solution/Sludge may be contaminated with (but not limited to) heavy metals, nitrating acids, salts, paints, and oils		ik 🛴		
2112	Chrome Stripper	1	ß.		

## 8/30/89

	MWD1PP OFFE FIST	0/30/94			
ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
2113	Cadmium Stripper		<b>g</b> 1		
2114	Cadmium Cyanide Wastewater		gl		*****
2115	Manganese Phosphate Sludge may be contaminated (but not limited to) heavy metals, cyanides, nitrating acids, and solvents		gl		
2116	Water may be contaminated with (but not limited to) trivalent chrome		<b>g</b> 1		•
2117	Debris contaminated with (but not limited to) lead		1 <b>b</b>		******
2118	Water may be contaminated with (but not limited to) emulsifier/penetrants, phenols, and heavy metals		gl		
2119	Lead Azide Sludge (non-reactive/non-explosive per U.S. Bureau of Mines testing)		16		
2120	Debris contaminated with (but not limited to) mercury		1 <b>b</b>		
2121	Ethylene Glycol (anti-freeze) may be contaminated with (but not limited to) heavy metals, oils, dirt, and water		<b>g</b> 1		
2122	Debris contaminated with lead azide sludge (non-reactive/non-explosive per U.S. Bureau of Mines testing)		1 <b>b</b>		
2123	Electroplating Sludges may be contam- inated with (but limited to) heavy metals, petroleum products, solvents, and cyanides		gl		
2124	Corrosion Preventative may be contaminated with (but not limited to) heavy metals		gl		
2125	Bag House Waste may be contaminated with (but not limited to) heavy metals		1Ъ	-	
2126	Emissions Dust from steel production may be contaminated with (but not limited to) heavy metals		1 <b>b</b>		
2127	Emissions Dust from weapons testing may be contaminated with (but not limited to) lead		1 <b>b</b>		
2128	Plating Waste may be contaminated with (but not limited to) heavy metals		<b>g</b> 1		
2129	Plating Sludge may be contaminated with (but not limited to) chromium		<b>g</b> 1		
2130	Plating Waste may be contaminated with (but not limited to) chronium		1 <b>b</b>		
2131	Stop-off Wax may be contaminated with (but not limited to) chromium		1 <b>b</b>		
2132	Printing Room Mastewater may be contaminated with (but not limited to) cyanides and heavy metals	ł	<b>g1</b>		
133	Sludge may be contaminated with (but not limited to) trivalent chrome, cadmium, heavy metals, and metals	:	lb .		
134	Water contaminated with (but not		<b>51</b> .		

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ITEM NO.	Supplies/Srevices	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	limited to) heavy metals, nitrating acids, gold, silver, sinc, brass, rhodium, and cobalt				
2135	Detergents, biodegradable, contaminated with (but not limited to) heavy metals		gl	*******	
2136	Fly Ash, may be contaminated with (but not limited to) cadmium and lead		1 <b>b</b>	~~~~	
2137	Bottom Ash, wet, may be contaminated with (but not limited to) cadmium & lead		1 <b>b</b>	****	
2138	Barium Chromate		gl		
2139	Lead Chromate		<b>g</b> l		
2140	Lead Maleate		16		
2141	Sludge, Reavy Metal Hydroxide, contains oil and grease	•	16	*****	
2142	Deleted - 5900				
2143	Agricultural Blast (walnut shells) (in hopper)		16		
2300 - 2799	IGHITABLES (40 CFR 261.21, and 40 CFR 261 subpart D, fp less than 140/F and state regulated combustible liquids fp 140/F to 199/f)	n/a			
2300	Ignitables, Misc in containers less than 1 gl		gl		
2301	Ignitables, Misc in containers less than 7 lb		16		
2302	Deleted - 2300				
2303	Deleted - 2301				
2304	Ignitables, Misc		16	*********	
2305	Ignitables, Misc	i	61		
2306	Aerosols, Ignitables, not empty		16	•	
2307	Adhesives		16		
2308	Adhesives	i	gl .		
309	Calibration Fluid	1	gl .		
310	Cleaning Compound (solvents, mineral spirits)	1	<b>g1</b> .		
1311	Gasoline, may be contaminated	4	g1 .		
312	Spot Remover		J1.		
313	Sodium Sulfide	(	11.4		

ITEM NO.	SUPPLIES/SERVICES 1	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
2314	. Alcohol, Isopropyl (isopropanol)		gl		
2315	Thinners		<b>g</b> 1		
2316	JP-4, may be contaminated or off-spec		gl		
2317	JP-4, may be contaminated or off-spec		1 <b>b</b>		
2318	Aluminum Powder		1 <b>b</b>		
2319	Deleted - 4536				
2320	Kerosene		gl		
2321	Sealing Compound		16		
2322	Sealing Compound		gl		
2323	Asphalt Sealer		<b>g</b> 1		
2324	Ethyl Alcohol (ethanol)		<b>g1</b> .		
2325	Inhibitor (ethylene glycol monoethyl ether)		gl	~~~~~	
2326	Deleted - 4506				
2327	Leather Dressing (mineral spirits, animal oil, ester gum)		lb		
2328	Thinner, Epoxy		<b>6</b> 1		
2329	Decon Agent, STB, more than 39% chlorine		16		
2330	Decon Agent, STB, more than 39% chlorine	i	<b>g</b> 1		·
2331	Calcium Hypochlorite, more than 39% chlorine		16		
2332	Bleaching Powder (chlorinated lime, more than 39% chlorine)		1Ъ		
2333	Deleted - 2015				
2334	Hydrogen Peroxide	1	<b>g1</b>		
2335	Potassium Chlorate	1	<b>51</b> .		
2336	Sodium Nitrate		<b>51</b> .		
2337	Sodium Chlorite	1	ıb .		<del></del>
2338	Sodium Chlorite	8	,1		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
2339	Foam saturated with JP-4		<b>g</b> 1		
2340	Ether (ethyl ether)		<b>g</b> 1		
2341	Calcium Carbide		1 <b>b</b>		
2342	Benzyl Alcohol		<b>g</b> 1		
2343	Dichloroethylene (1,2-Dichloroethylene; Acetylene dichloride)		gl		
2344	Carbon Disulfide		gl		
2345	Alcohol, Denatured		gl		
2346	Duplicating Fluid (denatured alcohol, ethylene glycol monoethyl ether)		gl	44407444	
2347	Morpholine		1 <b>b</b>		
2348	Sulfur		1 <b>b</b>		
2349	Dimethylformamids .		gl		
2350	Turpentine .		<b>g</b> 1		
2351	Sodium Mitrate		16		
2352	Potassium Permanganate		gl		
2353	Oxygen Breathing Apparatus Cannisters- unspent-potassium superoxide (cannisters approx. 4 lb each)		1 <b>b</b>		
2354	Acetyl Chloride (ethanoyl chloride)		<b>g1</b>		
2355	Oxygen Candles (sodium chlorate, barium peroxide, iron binder)		1 <b>b</b>		
2356	Ethylene Oxide (epoxyethane; oxirane)		<b>61</b>		
2357	Ammonium Nitrate		<b>\$1</b>		
2358	Ethylenediamine (1,2-diaminoethane)		<b>£</b> 1		
2359	Polyurethane Components (A and/or B), polyurethane cushioning foam		81		
2360	Morpholine (tetrahydro-1,4-oxazine)		<b>g</b> 1		
2361	Alodine/Iridite (chromic acid, potassium ferricyanide, hydrofluoric acid, fluoride, hexavalent chrome)		<b>g</b> 1		
2362	Ammonium Persulfate		16		
2363	Potassium Nitrate		16		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
2364	N-butyl Acetate		<b>g</b> 1		
2365	Sodium Nitrite	,	gl		
2366	Hexane		gl		
2367	Otto Fuel with water		gl		
2368	Otto Fuel with seawater		81		
2369	Otto Fuel with (but not limited to) oil, water, agitene (petroleum distillates, surfacant, monomethyl ether dipropylene glycol), cyanide, and alcohol		gl		
2370	Hydrasine (approx. 2%) with (but not limited to) water		<b>g</b> 1		
2371	Hydrazine (approx. 5%) with (but not limited to) water		gl		
2372	Hydrazine/MMH (approx. 5%) with (but not limited to) water		gl		
2373	Hydrazine (approx. 10%) /UDMH (approx. 0.1%) with (but not limited to) water		gl		
2374	Hydrazine/MMH/UDMH (approx. 20%) with (but not limited to) water		gl		
2375	Hydrazine/MMH (approx. 20%) with (but not limited to) water		gl		
2376	Hydrazine (approx. 20%) with (but not limited to) water		g:1		
2377	Hydrazine (approx. 26%) with (but not limited to) water	·	gl		
2378	Hydrazine (approx. 36%) with (but not limited to) water		gl		
2379	Hydrazine (approx. 50%) with (but not limited to) water		<b>g</b> 1		
2380	Bromine Cartridges		16		
2381	Foam saturated with JP-4		1Ъ.		
2382	Carbon, Activated		1 <b>b</b>		•
2383	Ammonium Witrate		1 <b>b</b>		
2364	Potassium Permanganate (may be of sludge consistency)		1Ъ		
2385	Methyl Acetate	;	gl .		
2386	Ammonium Perchlorate	1	<b>g1</b> .		
2387	Witrocellulose (cellulose nitrate)	1	<b>51</b> .		
2388	Calcium	1	lb.		

ITEM BO.	SUPPLIES/SERVICES	RET.OTY:	UNIT	UNIT PRICE	AMOUNT
2389	Barium		1b		
	•				
2390	Nitrogen Tetroxide		81		
2391	Impregnite		1 <b>b</b>		
2392	Calibration Fluid		Ib		
2393	Cleaning Compound (solvents, mineral spirits)		1 <b>b</b>		
2394	Gasoline, may be contaminated		1 <b>b</b>		
2395	Spot Remover		16		
2396	Sodium Sulfide		16		
2397	Alcohol, Isopropyl (isopropanol)		16		
2398	Thinners		16		
2399	Kerosene		16		~~~~~
2400	Asphalt Sealer		16		
2401	Ethyl Alcohol (ethanol)		1ъ		
2402	Inhibitor (ethylene glycol monoethyl ether)		16		
2403	Thinner, Epoxy		1Ъ		
2404	Hydrogen Peroxide		16		
2405	Potassium Chlorate	,	15		
2406	Sodium Nitrate		l b		
2407	Sodium Chlorite	•	lb .		
2408	Ether (ethyl ether)	:	lb .		~~~~
2409	Benzyl Alcohol	1	lb.		
2410	Dichloroethylene (1,2-Dichloroethylene; Acetylene dichloride)	1	lb .		
2411	Carbon Disulfide	1	l <b>b</b>		
2412	Alcohol, Denatured	1	lb ·		
2413	Duplicating Fluid (denatured alcohol, ethylene glycol monoethyl ether)	1	b .		
2414	Dimethylformamide	3	<b>b</b>		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
2415	Turpentine		1 <b>b</b>		
2416	Potassium Permanganate		16		
2417	Acetyl Chloride (ethanoyl chloride)		1 <b>b</b>		
2418	Ethylene Oxide (epoxyethane; oxirane)		1 b	******	*
2419	Ammonium Nitrate		16		*****
2420	Ethylenediamine (1,2-diaminoethane)		16		
2421	Polyurethane Components (A and/or B), polyurethane cushioning foam		16		
2422	Alodine/Iridite (chromic acid, potassium ferricyanide, hydrofluoric acid, fluoride, hexavalent chrome)		1 <b>b</b>		
2423	N-butyl Acetate		1 <b>b</b>		~~~~~
2424	Sodium Nitrite		1 <b>b</b>		
2425	Hexane .		1 <b>b</b>		
2426	Otto Fuel with water		16		
2427	Otto Fuel with seawater		1 <b>b</b> .		
2428	Otto Fuel with (but not limited to) oil, water, agitene (petroleum distillates, surfacant, monomethyl ether dipropylene glycol), cyanide, and alcohol		1 <b>b</b>		
2429`	Hydrazine (approx. 2%) with (but not limited to) water		16	~~~~~	~~~~~
2430	Hydrazine (approx. 5%) with (but not limited to) water		16		~~~~~
2431	Hydrazine/MMH (approx. 5%) with (but not limited to) water		16		
2432	Hydrazine (approx. 10%) /UDMH (approx. 0.1%) with (but not limited to) water		16	*****	<del></del>
2433	Hydrazine/MMH/UDMH (approx. 20%) with (but not limited to) water		16		, <del></del>
2434	Hydrazine/MMH (approx. 20%) with (but not limited to) water	:	lb .		
2435	Hydrazine (approx. 20%) with (but not limited to) water	;	lb .		
2436	Hydrazine (approx. 26%) with (but not limited to) water	1	lb .		
2437	Hydrazine (approx. 36%) with (but not limited to) water	1	Ъ		
2438	Hydrazine (approx. 50%) with (but not limited to) water	1	ıb .		
2439	Methyl Acetate 64	1	ь .		

` ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
2440	Ammonium Perchlorate		16		
2441	Nitrocellulose (cellulose nitrate)		16		
2442	Nitrogen Tetroxide		16	~~~~	
2800 - 2899	MEDICAL ITEMS				
2800	Medical Items, Misc in containers less than 1 gl		gl	***	
2801	Medical Items, Misc in containers less than 7 lb		16	*	
2802	Deleted - 2800				
2803	Deleted - 2801				•
2804	Medical, Misc		15		
2805	Medical, Misc		gl	******	
2806	Aerosols, Misc Medical Waste		16	~	,
2900 - 3099	METAL PLATING/METAL STRIPPING	n/a			
	METAL PLATING/METAL STRIPPING				
2900	Metal Plating, Misc		16		
2901	Metal Plating, Misc	;	gl .		
2902	Wickel .	i	<b>g1</b>		
2903	Copper	ł	<b>g1</b> .		
2904	Cyanide Solution .	1	<b>g1</b> .		
	Water may be contaminated with (but not limited to) heavy metals, cyanides, nitrating acids, and solvents	•	g1		
	Water may be contaminated with ( but not limited to) heavy metals, acids, and bases	. 4	<b>51</b>		- <del> </del>
	Zinc Phosphate may be contaminated with (but not limited to) steel wool and sand	1	<b>.</b>		•
	Zinc Phosphate may be contaminated with (but not limited to) steel wool and sand	ŧ	11.		********
2909	Sickel Stripper may be contaminated with (but not limited to) phenols, heavy metals, cyanides, corrosive bases, and nitrobenzene sulfamate	•	j1	127 1 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

ITEM NO.	SUPPLIES/BERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
2910	Filters contaminated with cyanides		16		
2911	Cyanide Plating Sludge		<b>g</b> 1		
2912	Nickel Sludge may be contaminated with (but not limited to) heavy metals		gl	**********	
2913	Metal Stripper/Conditioning may be contaminated with (but not limited to) nitrating acids, paint, and oil		gl		
2914	Plating Treatment Wastewater Sludge may be contaminated with (but not limited to) heavy metals		gl		
2915	Nickel .		1 <b>b</b>	*********	~~~~
2916	Copper		lb		
2917	Cyanide Solution		1 <b>b</b>		
2918	Water may be contaminated with (but not limited to) heavy metals, cyanides, nitrating acids, and solvents	·	1 <b>b</b>		
2919	Water may be contaminated with (but not limited to) heavy metals, acids, and bases		1 <b>b</b>		
2920	Nickel Stripper may be contaminated with (but not limited to) phenols, heavy metals, cyanides, corrosive bases, and nitrobenzene sulfamate		1 <b>b</b>		
2921	Cyanide Plating Sludge		16		
2922	Nickel Sludge may be contaminated with (but not limited to) heavy metals		1Ъ	<u>-</u>	
2923	Metal Stripper/Conditioning may be contaminated with (but not limited to) nitrating acids, paint, and oil		1 <b>b</b>		
2924	Plating Treatment Wastewater Sludge may be contaminated with (but not limited to) heavy metals		lb		
3100 - 3399	PAINTS	n/a			•
3100	Paint, Misc in containers less than 1 gl		gl		
3101	Paint, Misc in containers less than 7 lb		1 <b>b</b>		
3102	Deleted - 3100	,			·
3103	Deleted - 3101				
3104	Paint, Misc		1 <b>b</b>		
3105	Paint, Misc		<b>g</b> 1		
3106	Aerosols, Paint, not empty		1 <b>b</b>		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT."
3107	Acrylic		<b>6</b> 1		
3108	Ename 1		<b>\$1</b>		
3109	Epoxy		<b>g</b> 1		
3110	Lacquer		gl		
3111	Oil Base		gl		
3112	Polyurethane		<b>g</b> 1		
3113	Varnish		gl		
3114	Primer		gl		
3115	Chlorinated Rubber		<b>g1</b>		
3116	Deck Coating		gl		
3117	Shellac		16		
3118	Shellac		<b>g</b> 1		
3119	Zinc Paint		<b>g</b> 1		
3120	Acrylic		1 <b>b</b>	*********	
3121	Ename!		1 <b>b</b>		
3122	Rpoxy		1Ъ		
3123	Lacquer		1 <b>b</b>		
3124	Oil Base		15		
3125	Polyurethane .		1Ъ		· 
3126	Varnish .		16		
3127	Primer		16		
3128	Chlorinated Rubber		1Ъ		
3129	Deck Coating .		1Ъ		
3130	Zinc Paint		1Ъ		
3132	Paint Wastes may be contaminated with (but not limited to) oils, thinners, dirt, solvents, removers, & strippers		1 <b>b</b>	- <del></del>	
3133	Paint Wastes, chromic acid, phenols		1 <b>b</b> .		

ITEM BO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	•				
3134	Paint Wastes with (but not limited to) strippers, heavy metals, and acids		16		
3135	Paint Wastes with heavy metals, oils, thinners, and solvents		1 <b>b</b>		
31 <b>36</b>	Water may be contaminated with (but not limited to) paint, heavy metals, and dirt (could be paint spray booth debris)		1 <b>b</b>		
3137	Paint Wastewater Treatment Sludge may be contaminated with (but not limited to) paint, dirt, heavy metals		1 <b>b</b>	*******	
3300	Paint Wastes may be contaminated with (but not limited to) oils, thinners, dirt, solvents, removers, & strippers		gl		
3301	Paint Wastes, epoxy and/or polyurethane		16		
3302	Paint Wastes, epoxy and polyurethane		gl		
3303	Paint Wastes, chromic acid, phenols		<b>g</b> 1		
3304	Paint Wastes with (but not limited to) strippers, heavy metals, and acids		gl		
3305	Paint Wastes with heavy metals, oils, thinners, and solvents		gl		
3306	Paint Waste Solid (chips and solidified paint)		1ъ	J	
3307	Paint Wastes with (but not limited to) strippers, heavy metals, and acids		1ъ		
3308	Water may be contaminated with (but not limited to) paint, heavy metals, and dirt (could be paint spray booth debris)		gl	~~~~~	
3309	Paint Wastewater Treatment Sludge may be contaminated with (but not limited to) paint, dirt, heavy metals		gl	######################################	*******
3310	Paint, partially solidified (solids, sludges, liquids, or any combination of solids, liquids, and/or sludges)		1 <b>b</b>	~~~~~	
3311	Paint or paint wastes, contaminated with PCBs		1 <b>b</b>		
3400 - 3699	PESTICIDES .	n/a			
3400	Pesticides, Misc in containers less than 1 gl	;	gl		
3401	Pesticides, Misc in containers less than 7 lb		1Ъ		
3402	Deleted - 3400				
3403	Deleted - 3401				
3404	Pesticides, Misc	1	LB .		*****
3405	Pesticides, Misc	ŧ	ş1 <u>.</u>		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
3406	Aerosols, Pesticides, not empty		1b		
3407	DDD (dichlorodiphenyl-dichloroethane: TDE)		16		
3408	DDT (dichlorodiphenyl-trichloroethane; dicophene)		1 <b>b</b>		
3409	DDT (dichlorodiphenyl-trichloroethane; dicopahne)		<b>g1</b>		
3410	Diazinon (0,0-diethyl 0-(2-isopropyl-4-methyl-6-pyrimidinyl)phosphorothicate)		16		
3411	Diazinon (0,0-diethyl 0-(2-isopropyl-4-methyl-6-pyrimidinyl)phosphorothicate)		gl		****
3412	Chlordane (1,2,4,5,6,7,8,8-octachloro-4,7-methano-3a,4,7,7a-tetrahydroindane)		<b>g</b> 1		
3413	Malathion (S-[1,2-bis(ethoxycarbonyl) ethyl) 0,0-dimethyl phosphorodithioate)		<b>g</b> l	*******	
3414	Brulin 715		<b>g</b> 1		
3415	Ceresan (methyl mercury P-Toluene)		16		
3416	Lindane (gammabenzene hexachloride)		1 <b>b</b>	~~~~~~	
3417	Lindane (gammabenzene hexachloride)		gl		
3418	Pentachlorophenol (PCP)		16	*********	
3419	Pentachlorophenol (PCP) -		gl	~~~~~	
3420	Warfarin (3-(alpha-acetonylbenzyl)-4-hydroxycoumarin)		1Ъ		
3421	Fumazone (1,2-Dibromo-3-Chloropropane)		<b>g</b> 1		
3422	Silvex (fenoprop; 2-(2,4,5-trichloro- phenoxy)propionic acid)	,	<b>g1</b> .		
3423	Borocil IV (sodium metaborate; tetrahydrate; 5-bromo-3-sec-butyl-6- methyluracil)		1 <b>b</b>		
3424	Vapona (2,2-dichloro-vinyl dimethyl phosphate)	ł	<b>g1</b>		
3425	Dieldrin (HEOD)		1 <b>b</b> .		
3426	Baygon (ortho-iso-propoxyphenyl methyl-carbamate		1 <b>b</b> .		
3427	Malathion (S-[1,2-bis(ethoxycarbonyl) ethyl] 0,0-dimethyl phosphorodithioate)	,	lb .		
3428	Bromacil (5-bromo-3sec-butyl-6-methyluracil)	1	lb .		
3429	Bromacil (5-bromo-3 sec-butyl-6-methyluracil)	•	<b>5</b> 1 .		
3430	Chlordane (1,2,4,5,6,7,8,8-octachloro-4,7-methano-3a,4,7,7a-tetrahydroindane)	1	lb .		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
3431	Pyrethrins (pyrethrolone ester of chrysanthemum-monocarboxylic acid)		16		
3432	Pyrethrins (pyrethrolone ester of chrysanthemum-monocarboxylic acid)		gl		
3 <b>433</b>	Sodium Arsenite (sodium metaarsenite)		gl		
3434	Dichlorophenoxyacetic acid (2.4-Dichlorophenoxyacetic Acid; 2.4-D)		gl		
3435	Carbaryl (1-naphthyl-N-methyl-carbamate)		1 <b>b</b>		
3436	Betasan (S-(O-Diisopropyl Phosphoro- dithicate) of N-(2-mercaptoethyly) benzenesulfonamide)		1 <b>b</b>		<b>~~~~~~</b>
3437	Kepone		1 <b>b</b>		
3438	Kepone		gl		
3439	Pival (2-Pivaly1-1,3-indandione)		1 <b>b</b>		
3440	Deleted - 3430				
3441	Deleted - 3427				
3442	Brulin 715		1 <b>b</b>		
3443	Fumazone (1,2-Dibromo-3-Chloropropane)		1b		
3444	Silvex (fenoprop; 2-(2,4,5-trichloro- phenoxy)propionic acid)		1 <b>b</b>		
3445	Vapona (2,2-dichloro-vinyl dimethyl phosphate)		1 <b>b</b>		
3446	Sodium Arsenite (sodium metaarsenite)		1 <b>b</b>		
3447	Dichlorophenoxyacetic acid (2,4-Dichlorophenoxyacetic Acid; 2,4-D)		1 <b>b</b>		
3448	DDD/Lindane		1 <b>b</b>		
3449	Water contaminated with (but not limited to) chlordane; malathion; diazinon; 2.4-D; baygon; pyrethrins; dursban; carbaryl; ronnel; abate; bendicarb		1 <b>b</b>		
3600	DDD/Lindane		gl		
3601	Dioxin - contaminated items		1 <b>b</b>		
3602	Dioxin - contaminated items		gl		
3 <b>603</b>	Water contaminated with (but not limited to) chlordane; malathion; diazinon; 2,4-D; baygon; pyrethrins; dursban; carbaryl; ronnel; abate; bendicarb		gl		
3700 - 3899	PHOTOGRAPHY WASTES	n/a			
3700	Photography Wastes, Misc in containers		gl		

ITEM NO.	Supplies/services	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	less than 1 gl				
3701	Photography Wastes, Misc in containers less than 7 lbs		16		
3702	Deleted - 3700				
3703	Deleted - 3701				
3704	Photography Wastes, Misc		1 <b>b</b>		
3705	Photography Wastes, Misc		gl		
3706	Auto Reversal Chemicals		1 <b>b</b>		
3707	Developers .		gl		
3708	Multilith Electrostatic Ferrocyanide		gl		~~~~
3709	Toners		<b>g</b> 1		
3710	Fixers		<b>g</b> ]	******	
3711	Hardener		<b>g</b> 1		
3712	Stabilizers		<b>6</b> 1		
3713	Print Activator (magnesium acetate, ethylene thiourea complexed with silver, acetic acid, water)		gl .		
3714	Print Flattening and Gloss Solution (2-methyl-2,4-pentanediol)		gl		
3715	Starters		15		
3716	Starters .		<b>g1</b> .		
3717	Replenishers		1 <b>b</b>		
3718	Replenishers	•	<b>61</b>		
3719	Fixers	<b>~</b>	1 <b>b</b>		
3720	Developers .		1Ъ		
3721	Print Activator		Îb .		
3722	Photo Bleach w/ ferrocyanide		1Ъ		<del></del>
3723	Hypo-solution (sodium thiosulfate)	. 1	<b>g</b> 1.		
3724	Hypo-solution (ammonium thiosulfate)	į	<b>g1</b> .	*	
3725	Toners	:	lb .	******	

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
3726	Multilith Electrostatic Ferrocyanide		1 <b>b</b>		
3727	Hardener		1 <b>b</b>		
3728	Stabilizers .		1 <b>b</b>		
3729	Print Activator (magnesium acetate, ethylene thiourea complexed with silver, acetic acid, water)		1 <b>b</b>		
3730	Print Flattening and Gloss Solution (2-methyl-2,4-pentanediol)		15		
3731	Hypo-solution (sodium thiosulfate)		1 <b>b</b>		
3732	Hypo-solution (ammonium thiosulfate)		16		
3900 - 4199	POL (Petroleum-Oils-Lubricants) with contaminants	n/a			
3900	POL, Misc in containers less than 1 gl		<b>g</b> 1		
3901	POL, Misc in containers less than 7 lb		1 <b>b</b>		
3902	Deleted - 3900				
3903	Deleted - 3901				
3904	POL, Misc		16		
3905	POL, Misc		<b>g1</b>		
3906	Aerosols, POL, not empty		1 <b>b</b>		
3907	Grease contaminated with oils		1 <b>b</b>		
3908	Cutting Oils contaminated with metals .	٠	1 <b>b</b>		
3909	Waptha (mineral spirits)		<b>g</b> 1		
3910	Water contaminated with oil and/or soap	•	gl		
3911	Oil/Oil Sludge from water separator or tank		<b>g</b> 1		
3912	ACFT Corrosion Control Ringate (mineral oil, isopariffin hydrocarbons, petroleum hydrocarbons, oil)		g1		, ====================================
3913	Mapthalene .		gl		
3914	Oil may be contaminated with (but not limited to) chromium, lead, & solvents		gl .		
3915	Oil Sludge	;	<b>g1</b> .		
3916	Diesel Fuel	Į	gl .		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
3917	Gun Flushing Compound - petroleum/oil		<b>g</b> 1		
3918	Oil contaminated with water		gl		
3919	Filter Cartridges may be contaminated with petroleum, petroleum fuels & naptha		1 <b>b</b>		
3920	Diesel Fuel, Kerosene, JP-4 contaminated with water and dirt		gl		
3921	Oil may be contaminated with (but not limited to) dirt, water, diesel fuel, thinners, solvents, paint, ethylene glycol, turpentine, gasoline		<b>g</b> 1		
3922	Hydraulic Fluid with (but not limited to) heavy metals and solvents		<b>g</b> 1		
3923	Corrosion Inhibitor (petroleum distillates, stoddard solvents)		<b>g</b> 1		
3924	Corrosion Inhibitor (mineral oil, isoparafin hydrocarbons)		gl		
3925	Lubricant, petroleum		gl		
3926	Oil, Synthetic		gl		
3927	Petroleum Fuels		16		
3928	Petroleum Fuels		gl		
3929	Oil may be contaminated with (but not limited to) grease and water		<b>g</b> 1		
3930	Hydraulic Fluid		<b>g</b> 1		
3931	Corrosion Preventative (crude petroleum oil)		1Ъ		******
3932	Petroleum Lubricants (used) could be contaminated with (but not limited to) diesel and burner fuels, ethylene glycol, water and dirt	٠.	gl		
3933	Naptha (mineral spirits) with (but not limited to) oil, cyanide, and traces of Otto fuel		<b>g1</b>		
3934	Oil contaminated with (but not limited to) lube and preservative oil, naptha, water, cyanide, and excess chlorine from cyanide reduction	ï	<b>61</b> .		
3935	Oil Quench Bath Sludge may be contaminated with (but not limited to) cyanides	-	<b>g</b> 1 .		
3936	Oil may be contaminated with (but not limited to) heavy metals	1	gl .		
3937	Oil, Cutting may be contaminated with (but not limited to) heavy metals		g1 .		
3938	Debris (to be removed from oil/water separator): wood, glass, bottles, rocks, brushes, cans, dirt, sand, pine straw, and various contaminants not to exceed 6 in diameter	:	lb .		

ITEM NO.	SUPPLIES/SERVICES	est.QTY.	UNIT	UNIT PRICE	AMOUNT
39 <b>39</b>	Naptha (mineral spirits)		16		
3940	Water contaminated with oil and/or soap		16		
3941	Oil/Oil Sludge from water separator or tank		1 <b>b</b>		
3942	ACFT Corrosion Control Rinsate (mineral oil, isoparifin hydrocarbons, petroleum hydrocarbons, oil)		1 <b>b</b>	*******	
3943	Napthalene		1b		
3944	Oil may be contaminated with (but not limited to) chromium, lead, & solvents		1 <b>b</b>		
3945	Oil Sludge .		1 <b>b</b>		-447
3946	Diesel Fuel		1 <b>b</b>		
3947	Gun Flushing Compound - petroleum/oil		16		
3948	Oil contaminated with water		1 <b>b</b>		
3949	Diesel Fuel, Kerosene, JP-4 contaminated with water and dirt		1 b	*****	
3950	Oil may be contaminated with (but not limited to) dirt, water, diesel fuel, thinners, solvents, paint, ethylene glycol, turpentine, gasoline		1 <b>b</b>		
3951	Hydraulic Fluid with (but not limited to) heavy metals and solvents		1 <b>b</b>	******	
3952	Corrosion Inhibitor (petroleum distillates, stoddard solvents)		1 <b>b</b>		
3953	Corrosion Inhibitor (mineral oil, isoparafin hydrocarbons)		1Ъ		
3954	Lubricant, petroleum		16		~~~~~~
3955	Oil, Synthetic		1 <b>b</b>		
3956	Oil may be contaminated with (but not limited to) grease and water		16		
3957	Hydraulic Fluid		16		
3958	Petroleum Lubricants (used) could be contaminated with (but not limited to) diesel and burner fuels, ethylene glycol, water and dirt		16		~***
3959	Waptha (mineral spirits) with (but not limited to) oil, cyanide, and traces of Otto fuel		1 <b>b</b>		
3960	Oil contaminated with (but not limited to) lube and preservative oil, naptha, water, cyanide, and excess chlorine from cyanide reduction		1 <b>b</b>		
3961	Oil Quench Bath Sludge may be contaminated with (but not limited to) cyanides	1	lb .		

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ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
3962	Oil may be contaminated with (but not limited to) heavy metals		16		
3963	Oil, Cutting may be contaminated with (but not limited to) heavy metals		16		~~~~~
3964	POLs or POL wastes, contaminated with PCBs		1 <b>b</b>		
4200 - 4499	REACTIVES (40 CFR 261.23, 40 CFR 261 subpart D and state regulated)	n/a			
4200	Reactives, Misc in containers less than 1 gl		gl		
4201	Reactives, Misc in containers less than 7 lb		1 <b>b</b>		
4202	Deleted - 4200				
4203	Deleted - 4201				
4204	Reactives, Misc		16		
4205	Reactives, Misc		gl		
4206	Organic Peroxides		1 <b>b</b>		
4207	Organic Peroxides		<b>g</b> 1		
4208	Calcium Hydride		1 <b>b</b>		
4209	Deleted - 2362				
4210	Deleted - 2334				
4211	Deleted - 2351				
4212	Deleted - 2363				
4213	Deleted - 2353				i.
4214	Lithium		1 <b>b</b>		
4500 - 5499	SOLVENTS	n/a			%
4500	Solvents, Misc. in containers		<b>61</b>		: :
4501	less than 1 gl Solvents, Misc. in containers		1 <b>b</b>		~ ~======
	less than 7 lb Deleted - 4500				, es
4503	. Deleted - 4501				301
	Solvents, Misc.		1 <b>b</b>		
	Solvents, Misc.	•	, 11		
		•	• .		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
4506	Aerosols, Solvents, not empty		16		
4507	Acetone (dimethyl-ketone; 2-propanone)		gl		
4508	Carbon Disulfide (carbon bisulfide)		gl	+	
4509	Carbon Tetrachloride (tetrachloro- methane; perchloromethane)		<b>g</b> 1		
4510	Chlorobenzene (monochlorobenzene; phenyl chloride)		gl		
4511	Cresol (methyl phenol; hydroxy- methylbenzene; cresylic acid)		gl		
4512	Cresylic Acid		gl		
4513	Cyclohexanone (pimelic ketone; ketohexamethylene)		<b>g1</b>		
4514	Ethyl Acetate (acetic ether; acetic esther; vinegar naptha)		gl		
4515	Ethyl Benzene (phenylethane)		gl		
4516	Ethyl Ether (ether; diethyl ether; sulfuric ether; ethyl oxide; diethyl oxide)		gl		
4517	Isobutanol (isobutyl alcohol)		<b>g1</b>		
4518	Methanol (methyl alcohol)		<b>g</b> 1		
4519	Methylene Chloride (methylene dichloride; dichloromethane)		gl		
4520	Methyl Ethyl Ketone (MEK)		gl		
4521	Methyl Isobutyl Ketone (MIBK)		gl		
4522	N-Butyl Alcohol (1-butanol; butyric alcohol)		<b>61</b>		
4523	Nitrobenzene (oil of mirbane)		gl		
4524	Ortho-Dichlorobenzene (1,2-dichloro- benzene)		gl		
4525	Pyridine .		gl		
4526	Tetrachloroethylene (perchloroethylene)		gl		
4527	Toluene (methyl-benzene; phenyl-methane)		<b>81</b>		
4528	Trichloroethane, 1,1,1- (methyl chloroform)		gl		~~~~~
4529	Trichloroethylene		gl		
4530	Trichlorofluoromethane (fluorotrichloromethane; fluorocarbon-11)		gl		

		0, 00, 00			
ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
4531	Trifluorotrichloroethane (1,1,2-Trichloro-1,2,2-Trifluoroethane)		<b>g</b> 1	*******	
4532	Xylene (dimethyl-benzene)		<b>g</b> 1		
4533	Freon (fluorocarbons)		<b>g</b> 1	*****	
4534	Chlorinated Fluorocarbons		<b>g</b> 1	********	
4535	Trichloroethane, 1,1,2-		<b>g</b> 1		
4536	Benzene		gl		
4537	Ethoxyethanol, 2-		gl		
4538	Witropropane, 2-		gl		
4539	Acetone (dimethyl-ketone, 2-propanone)		16		*****
4540	Carbon Disulfide (carbon bisulfide)		1 <b>b</b>		********
4541	Carbon Tetrachloride (tetrachloro- methane; perchloromethane)		16	*****	
4542	Chlorobenzene (monochlorobenzene; phenyl chloride)		1 <b>b</b>	********	
4543	Cresol (methyl phenol; hydroxy- methylbenzene; cresylic acid)		15		
4544	Cresylic Acid		1 <b>b</b>		
4545	Cyclohexanone (pimelic ketone; ketohexamethylene)		16		
4546	Ethyl Acetate (acetic ether; acetic ester; vinegar naptha)		16		
4547	Ethyl Benzene (phenylethane)		16		
4548	Ethyl Ether (ether; diethyl ether; sulfuric ether; ethyl oxide; diethyl oxide)		1 <b>b</b>		
4549	Isobutanol (isobutyl alcohol)		1 <b>b</b>		
4550	Methanol (methyl alcohol)	,	16		**
4551	Methylene Chloride (methylene dichloride; dichloromethane)	,	l <b>b</b> .		· -
4552	Methyl Ethyl Ketone (MEK)	:	lb .		
4553	Methyl Isobutyl Ketone (MIBK)	:	lb .		
4554	M-Butyl Alcohol (1-butanol; butyric alcohol)	1	lb _		77.75
4555	Witrobenzene (oil of mirbane)	1	<b>.</b>		tyra i
4556	Ortho-Dichlorobensene (1,2-dichloro-	1	<b>b</b> 20 _		17.2

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	benzene)				
4557	Pyridine .		1 <b>b</b>		
4558	Tetrachloroethylene (perchloroethylene)		16		****
4559	Toluene (methyl-benzene; phenyl-methane)		1 <b>b</b>	*******	
4560	Trichloroethane, 1,1,1- (methyl chloroform)		16		
4561	Trichloroethylene		16		
4562	Trichlorofluoromethane (fluorotrichloro methane; fluorocarbon-11)		1b		
4563	Trifluorotrichloroethane		1 <b>b</b>		
4564	Xylene (dimethyl-benzene)		1 <b>b</b>		
4565 `	Freon (fluorocarbons)		1 <b>b</b>		
4566	Chlorinated Fluorocarbons		16		
4567	Trichloroethane, 1,1,2-		1 <b>b</b>		
4568	Benzene		1 <b>b</b>		
4569	Ethoxyethanol, 2-		1Ъ		
4570	Nitropropane, 2-		1 <b>b</b>		
4571	MEK and Paint		1 <b>b</b>	****	
4572	Methanol, Toluene, Water, Paint		1 <b>b</b>		
4573	Solvents, Mixed, approximately 60% methylene chloride		1 <b>b</b>		
4574	Methylene Chloride may be contaminated with (but not limited to) toluene, alcohols, MIBK, methanol, sodium chromate		16		
4575	Solvents and Thinners contaminated with (but not limited to) paint wastes		1 <b>b</b>		
4576	Paint Removers		1 <b>b</b>		
4577	Trichloroethane, contaminated .		1Ъ		
4578	Dye Penetrant (trichloroethane with ethoxylated nonylphenol, dichloromethane, carbon dioxide, and petroleum hydrocarbons	•	16		
4579	Turco Cleaner could contain aromatic solvents, glycol ether, water, and petroleum hydrocarbons		lb .		
4580	Methylene Chloride with urethane	1	l <b>b</b>	********	

8/30/89

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
4581	Methylene Chloride Sludge		1 <b>b</b>		
4582	Tetrachloroethylene (perchloroethylene) Sludge		1 <b>b</b>		
4583	Trichloroethylene Sludge		16		
4584	Trichloroethane, 1,1,1-, Still Bottoms		16		
4585	MEK may be contaminated with (but not limited to) toluene, thinners, ethanol, solvents, peroxides, petroleum products, and paint		1 <b>b</b>		*********
4586	Trichloroethane with water and/or oil		1 <b>b</b>		
4587	Duplicating Fluid (methanol, ethyl alcohol, ethylene glycol monethyl ether)		1 <b>b</b>		
4588	Tetrachloroethylene (perchloroethylene) may be contaminated with (but not limited to) hydraulic fluid, freon, petroleum products, emulsifier, penetrant, and heavy metals		1 <b>b</b>		
4589	Carbon Remover (orthodichlorobenzene, potassium oleate, water) contaminated with heavy metals		16		********
4590	Generator Cleaner contains (but not limited to) dichlorobenzene		1 <b>b</b>		
4591	Mixed Solvents (but not limited to) methylene chloride, trichloroethane, freon, and MEK		1 <b>b</b>		
4592	Trichloro-trifluoroethane contaminated with (but not limited to) trichloro-ethane, methanol, acetone & alcohols		1 <b>b</b>		
4593	Trichloroethane Sludge		1 <b>b</b>		
4594	Silicone Fluid may be contaminated with (but not limited to) acetone, freon, paint residues, petroleum products, alcohols, thinners & trichloroethane		1 <b>b</b> '	*****	
4595	Water may be contaminated with (but not limited to) trichloroethane, MEK, and/or other solvents		1 <b>b</b>		
4596	Caustic Solution containing methylene chloride		1b		
4597	Solvents may be contaminated with (but not limited to) water and petroleum products		16		<del></del>
4598	PD 680		1Ъ		
4599	Purging Fluid	:	1 <b>b</b> .		
4600	Ethylene Chloride	:	1 <b>b</b> .	*******	
4601	Stoddard Solvent	:	lb .		

1,23

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
4602	Dry Cleaning Solvent		16		
4603	Stoddard Solvent may be contaminated with (but not limited to) heavy metals		1 <b>b</b>		
4604	Inspection Penetrants, Fluoro-finder (solvents, alkyl aryl polyethoxide ester sulfactant or aromatic naphtha, alkyl amines, glycol ether)		1 <b>b</b>		
4700	MEK and Paint		gl		~~~
4701	Methanol, Toluene, Water, Paint		gl		
4702	Solvents, Mixed, approximately 60% methylene chloride		<b>g</b> 1		
4703	Methylene Chloride may be contaminated with (but not limited to) toluene, alcohols, MIBK, methanol, sodium chromate		gl		**********
4704	Solvents and Thinners contaminated with (but not limited to) paint wastes.		gl		
4705	Paint Removers		<b>g</b> l		
4706	Trichloroethane, contaminated		gl		
4707	Dye Penetrant (trichloroethane with ethoxylated nonylphenol, dichloromethane, carbon dioxide, and petroleum hydrocarbons		gl		
4708	Turco Cleaner could contain aromatic solvents, glycol ether, water, and petroleum hydrocarbons		gl		
4709	Methylene Chloride with urethane		gl		
4710	Methylene Chloride Sludge		gl		
4711	Tetrachloroethylene (perchloroethylene) Sludge		<b>8</b> 1		
4712	Trichloroethylene Sludge		<b>g</b> 1		
4713	Filter Cartridges with perchloro- ethylene (tetrachloroethylene)		1Ъ		
4714	Trichloroethane, 1,1,1-, Still Bottoms		gl .		
4715	MEK may be contaminated with (but not limited to) toluene, thinners, ethanol, solvents, peroxides, petroleum products, and paint		<b>g1</b> .		
4716	Trichloroethane with water and/or oil .	į	g1 .		
4717	Duplicating Fluid (methanol, ethyl alcohol, ethylene glycol monethyl ether)	į	gl .		
4718	Tetrachloroethylene (perchloroethylene) may be contaminated with (but not limited to) hydraulic fluid, freon, petroleum products, emulsifier, penetrant, and heavy metals	,	<b>gl</b> .		

item no.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
4719	Deleted - 4752				
4720	Deleted - 4753	•			
4721	Deleted - 4752				
4722	Deleted - 4753				
4723	Carbon Remover (orthodichlorobenzene, potassium oleate, water) contaminated with heavy metals		gl		
4724	Generator Cleaner contains (but not limited to) dichlorobenzene		gl	******	
4725	Mixed Solvents (but not limited to) methylene chloride, trichloroethane, freon, and MEK		<b>g</b> 1	************	********
4726	Trichloro-trifluoroethane contaminated with (but not limited to) trichloro-ethane, methanol, acetone & alcohols		gl		
4727	Trichloroethane Sludge		gl		
4728	Silicone Fluid may be contaminated with (but not limited to) acetone, freon, paint residues, petroleum products, alcohols, thinners, & trichloroethane		gl		
4729	Water may be contaminated with (but not limited to) trichloroethane, MEX, and/or other solvents.		gl		
4730	Caustic Solution containing methylene chloride		<b>g</b> 1	~~~~~	
4731	Solvents may be contaminated with (but not limited to) water and petroleum products		gl		
4732	Deleted - 3300	•			
4733	Deleted - 3310				
4734	Deleted - 1305				
4735	Deleted - 1304				
4736	Deleted - 2005				
4737	Deleted - 2004				£77.
4738	Deleted - 2305				
4739	Deleted - 2304				. 📆
4740	Deleted - 2901				* 73
4741	Deleted - 2000				• • • • • • • • • • • • • • • • • • • •
4742	Deleted - 3905 81			•	

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
4743	Deleted - 3904				
4744	Deleted - 1656				
4745	Deleted - 1655				
4746	Deleted - 4703				
4747	Deleted - 5500				
4748	Deleted - 4752				
4749	Deleted - 4753				
4750	Deleted - 4752				
4751	Deleted - 4753				•
4752	Deleted - (Waste with any C.23 solvents)		1 <b>b</b>		
4753	Deleted - (Waste with any C.23 solvent)		gl		
4754	Filter Press Sludge, contaminated with heavy metals, phenols, halogenated and non-halogenated solvents, moisture content of 15-20%, but no free liquids		16		
4755	IWTP sludge containing solvents and heavy metals		lb		
5000	Deleted - 4500				
5001	Deleted - 4501				
5002	Deleted - 5000				
5003	Deleted - 5001				•
5004	Deleted - 4504				
5005	Deleted - 4505				
5006	Deleted - 4506				
5007	PD 680		gl		
5008	Purging Fluid		gl		
5009	Ethylene Chloride		<b>g</b> 1		
5010	Stoddard Solvent		<b>g1</b>		
5011	Dry Cleaning Solvent 82		gl		

ITEM	NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
		•				
5012		Stoddard Solvent may be contaminated with (but not limited to) heavy metals		<b>g</b> 1		
5013		Inspection Penetrant (hydrocarbon solvents, methyl chloroform, propanel, pyr, carbon dioxide)		1 <b>b</b>		
5014		Inspection Penetrant (hydrocarbon solvents, methyl chloroform, propanel, pyr, carbon dioxide)		gl		
5015		Inspection Penetrants, Fluoro-finder (solvents, alkyl aryl polyethoxide ester sulfactant or aromatic naphtha, alkyl amines, glycol ether)		gl	~~~~~~	**********
5016		Solvents or solvent wastes, contaminated with PCBs		1 <b>b</b>	~~~	
5500 -	- 5599	SPILL RESIDUES (RCRA/state regulated contaminated/listed)	n/a			,
5500		Spill Residues, Misc and/or debris, RCRA contaminated		1 <b>b</b>		
5501		Spill Residues and/or debris, Misc RCRA contaminated		gl		
5503		Pallets-RCRA contaminated .		16	******	
5504		Deleted - 5500				
5505		Deleted - 5501				
5506		Deleted - 5502				
5507		Deleted - 5503				
5600 -	5899	TOXICS (40 CFR 261.33 (f), U-listed and state regulated wastes)	n/a			
5600		Toxics, Misc in containers less than 1 gl		<b>g</b> 1 .		
5601		Toxics, Misc in containers less than 7 lb		1 <b>b</b> .		····
5602		Deleted - 5600				
5603		Deleted - 5601				
5604		Toxics, Misc	,	lb .		
5605		Toxics, Misc.	1	g1 _		
5606		Methylenebis(2-chloroaniline), 4,4'- (MOCA)	1	§1 _		• • • • • • • • • • • • • • • • • • • •
5607		Formaldehyde	1	<b>,</b> 1		
5608	•	Toluene Diisocyanate (encapsulating foam)	1	l <b>b</b> _		44.19 <del>8</del>

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
5609	Toluene Diisocyanate (encapsulating foam)		<b>g</b> 1		
5610	Aniline (aminobenzene, phenylamine, aniline oil)		gl		~~~~~
5611	Thiourea (thiocarbamide)		gl		
5612	Chloroform (trichloromethane)		gl		
5613	Formic Acid (hydrogen carboxylic acid; methanoic acid) - used and/or off-spec		gl	~	*********
5614	Furan (furfuran; tetrol)		gl		
5615	Mercury		16		
5616	Mercury		gl		
5617	Phenol (carbolic acid)		16		
5618	Phenol (carbolic acid)		gl		
5619	Ethyl Acetate		gl		
5620	Aerosols, Toxics, U-listed, not empty		1 <b>b</b>		
5621	Asbestos (STATE REGULATED)		16		
5623	Asbestos (STATE REGULATED)		сy		
5624	Methylenebis (2-chloroaniline), 4,4'- (MOCA)		1 <b>b</b>		
5625	Deleted - 5624				
5626	Formaldehyde		lb		
5627	Aniline (aminobenzene, phenylamine, aniline oil)		16		
5628	Thiourea (thiocarbamide)		16		
5629	Chloroform (trichloromethane)		1ъ		
5630	Formic Acid (hydrogen carboxylic acid; methanoic acid) - used and/or off-spec		1Ъ	*****	
5631	Furan (furfuran; tetrol)		1ъ .		
5632	Rthyl Acetate		1 <b>b</b> .		
5900 - 5999	CHEMICAL DEFENSE EQUIPMENT KITS				.*
5900	Detector Kit, Chemical Agent (M256) (each kit approx. 1 1/2 1b)	1	lb .		
5901	M258Al Decon Kit	1	lb _		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
5902	M258 Decon Kit		1 <b>b</b>		
5903	M229 Refill Kit		16	****	
5904	Refill Kit (M58Al)		1 <b>b</b>		<b></b>
5905	M58Al Trainer		1 <b>b</b>		
5906	M15 Detector Kit		16		
5907	Refill, Kit		16		
5908	Sampling and Anl Kit		16		
5909	M72Al Skaits		16		
5910	M2 Water Test Kit		1 <b>b</b>		
5911	M272 Water Test Kit		16		
5912	M18A2 Det Kit		16		
5913	M72A2 Skaits		16		~~~~~
5914	M56 Refill Kit		1 <b>b</b>		
5915	M58 Trainer		1Ъ		
6000 - 6500	NON-RCRA	n/a			
6000	Non-RCRA Wastes, Misc in containers less than 1 gl		<b>61</b>		,
6001	Non-RCRA Wastes, Misc in containers less than 7 lb		1Ъ	# <b>####</b> ###############################	
6002	Deleted - 6000				
6003	Deleted - 6001			•	
6004	Mon-RCRA Wastes, Misc	•	16 .		
6005	Non-RCRA Wastes, Misc	1	g1 .	18040000 ,	
6006	Aerosols, empty		lb .		
6007	Asbestos and asbestos contaminated wastes	1	lb .		
6009	Bromochloromethane	1	g1 .		
6010	Copper Slag Blasting Grit	1	ъ_		
6011	Containers, 1 gl or larger, with more than 1 inch of the wastes described in	1	<b>.</b>		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	CLIM# 6000-6500				
6012	Ethylene Glycol (diethylene glycol)		<b>g</b> 1		
6013	Brake Fluid (polypropylene glycol, monobutyl ethers)		gl		e-479-999
6014	Grease		16		
6015	Hydraulic Fluid		<b>g1</b>		
6016	Lithium Bromide		<b>g</b> 1		
6017	Nickel Chloride		gl		
6018	Nitrosamine .		gl		
6019	Pallets		1 <b>b</b>		-4455555
6020	Spill Residue		1 <b>b</b>		
6021	Spill Residue		gl		
6022	Deleted - 6020 - 6021				
6023	Oil, Cutting		<b>g</b> 1		
6024	Oil, Jet Engine		<b>g</b> 1		
6025	Oil, Synthetic		gl		+
6026	Oil, Lube		gl		
6027	Ion Exchange Resin (cation exchanger and water)		gl		
6028	Potassium Tetraborate		1 <b>b</b>		
6029	Potassium Tetraborate		gl		
6030	Sodium Chloride		1Ъ		
6031	Ammonium Chloride		1Ъ		
6032	Ammonium Chloride		<b>g</b> 1		
6033	Wood or debris - with residual amounts of PCP - DDD and/or DDE		1 <b>b</b>		
6034	Proplylene Glycol (1,2-propanediol) De-icer or coolant		gl		
6035	Manganese Phosphate		1 <b>b</b>		
6036	Sodium Carbonate (soda ash)		1 <b>b</b>		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
6037	Zinc Phosphate		<b>g</b> 1		
6038	Aluminum Sulfate		1 <b>b</b>		
6039	Asphalt		1 <b>b</b>		
6040	Dessicant .		16		
6041	Cobalt Sulfate (cobaltous sulfate)		1 <b>b</b>		
6042	Rinsing Fluid (aliphatic hydrocarbons)		gl		
6043	Sodium Phosphate		<b>g1</b>	****	~~~
6044	Aerosol, Anti-Foam Compound (silicone, soap, water)		1 <b>b</b>		
6045	Corrosion Preventative Compound (petroleum derivative)		gl		
6046	Sodium Hexametaphosphate (calgon)		1 <b>b</b>		
6047	Antisetting Compound Decon Slurry (sodium tripolyphosphate, citric acid, calcium oxide)		gl		
6048	Latex Paint		<b>g1</b>		
6049	Decon Agent, STB, less than 39% chlorine		1 <b>b</b>		
6050	Decon Agent, STB, less than 39% chlorine		<b>g1</b>		
6051	Calcium Hypochlorite, less than 39% chlorine		gl		
6052	Bleaching Powder, less than 39% chlorine		16		
6053	Combustible Liquids (fp 140/F to 199/F)		gl		
6054	Compressed Gas Cylinders		1 <b>b</b>		
6055	Decontaminating Agent, DS-2 (less than 12.5 pH)		gl		**********
6056	Decontaminating Agent, DS-2 (less than 12.5 pH)		16		
6057	Dielectric Fluid (non PCB)		gl		.00
6058	Caulking Compound (silcone and butyl)		gl		
6059	Copper Chloride (cupric chloride) waste		<b>g</b> 1		
6060	Nickel Sulfamate		gl		
6061	Bromochloromethane Fire Extinguishers- compressed gas cylinder		1ъ		-
6062	Fog Oil (petroleum hydrocarbons;		<b>\$1</b>		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	petroleum oil)				
6063	Emulsifier (petroleum surfactants)		<b>g</b> 1		
6064	Sodium Phosphate		1 <b>b</b>		
6065	Sodium Bicarbonate		1 <b>b</b>		
6066	Tricresyl Phosphate (tritolyl phosphate)		<b>g</b> 1		
60 <b>67</b>	Urea (carbamide)		1 <b>b</b>		
6068	Ethylene Glycol Monobutyl Ether/ Ethylene Glycol Monomethyl Ether		gl		
6069	Deleted - 6035				
6070	Firefighting Foam (hexylene glycol and dichlorophene)		<b>g1</b>		
6071	Calcium Hydroxide		1 <b>b</b>		
6072	Lubricant, petroleum and synthetic		gl		
6073	Corrosion Inhibitor (petroleum distillates, stoddard solvent)		<b>gl</b> '	~~~	
6074	Corrosion Inhibitor (mineral oil, isoparaffin hydrocarbons)		<b>g</b> 1		
6075	Leak Detection Compound (ethylene glycol, surfactant, water)		gl		
6076	Sodium Sulfite		16		
6077	Lubricant		1 <b>b</b>	4	
6078	Acetate		<b>g1</b>		
6079	Flux, Aluminum & Aluminum Alloy (potassium, sodium lithium chloride & sodium fluoride)		16		
6080	Combustible Liquids (fp 140/F to 199/F)		16		
6081	Asphalt		<b>g</b> 1		
6082	Copper Sulfate		1 <b>b</b>		
6083	Graphite		1 <b>b</b>	*******	
6084	Tallow, Inedible		<b>g1</b>		
6085	Organotin ·		gl		
6086	Urethane .		<b>g1</b>		+
6087	Water contaminated with approx. 10% petroleum products		81		~ <del>~~~</del>

	mantan vara tot.	0.00.00			
ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
6088	Sodium Flurosilicate		1 <b>b</b>		
6089	Containers, empty, 1 gl or larger with less than 1 inch of the wastes described in CLIMS 0500-6500 (uncrushed or crushed)		1 <b>b</b>		
6090	Ferric Chloride Solution		<b>g1</b>		
6091	Manganese Phosphate		16		
6092	Ion Exchange Resin (cation exchanger)		1 <b>b</b>		
6093	Calcium Hypochlorite, less than 39% chlorine		1 <b>b</b>	-4	
6094	Ethylenediaminetetraacetic Acid (EDTA)		<b>g1</b>		
6095	Diethylenediamine (piperazine)		<b>g1</b>		
6096	Lithium Bromide (may be in cartridges)		1 <b>b</b>		
6097	Dimethyl Sulfoxide (methyl sulfoxide; DMSO)		<b>g</b> 1	-4	
6098	Petroleum Lubricants (used) contam- inated with (but not limited to) diesel and burner fuels, ethylene glycol, water, and dirt		<b>61</b>	-4	
5099	Water contaminated with cutting oil		gl		
6100	Oil, mixed, engine, hydraulic, brake, diesel, and heating		<b>g1</b>		
6101	Quebracho Extract		1 <b>b</b>	****	
6102	Batteries, Magnesium		16		
6103	Sodium Orthosilicate		1 <b>b</b>		
6104	Sodium Orthosilicate		<b>g</b> 1		
6105	Calcium Chloride		16		
6107	Containers, empty, less than 1 gl, with less than 1 inch of the waste described in CLIMS 0500-6500 (uncrushed or crushed)		1 <b>b</b>		
6108	Nickel Acetate		<b>6</b> 1		
6109	Heopentyl Glycol (2,2-dimethyl-1, 3-propanediol)		<b>g1</b>		
6110	Polytetramethylene Ether Glycol (polymeg)		<b>g1</b>		
6111	Triethylene Glycol (TEG)		<b>g1</b>		
6112	Ammonium Sulfate		<b>1b</b> :		

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
6113	Aluminum Sulfide		16		
6114	Blasting Booth Dusts/Sandblast Media (No RCRE Contaminants)		1 <b>b</b>	*****	
6115	Containers, empty, that previously contained wastes under CLIES 6000-6500		1 <b>b</b>		
6116	Forging Compound (mineral oil and graphite)		1 <b>b</b>	*****	
6117	Water contaminated with any non-RCRA wastes.	•	gl		
6118	Water contaminated with any non-RCRA wastes		1 <b>b</b>		
6119	Bromochloromethane .		16		
6120	Ethylene Glycol (diethylene glycol)		1Ъ		
6121	Brake Fluid (polypropylene glycol, monobutyl ethers)		16		
6122	Hydraulic Fluid		1Ъ		
6123	Lithium Bromide		1 <b>b</b>		
6124	Nickel Chloride		16		
6125	Nitrosamine .		1Ъ	70004000	
6126	Oil, Cutting		1 <b>b</b>	****	
6127	Oil, Jet Engine		1 <b>b</b>		
6128	Oil, Synthetic		1Ъ	****	
6129	Oil, Lube		1 <b>b</b>		
6130	Ion Exchange Resin (cation exchanger and water)		1 <b>b</b>		
6131	Proplylene Glycol (1,2-propanediol) De-icer or coolant		16		
6132	Zinc Phosphate		16	*******	
6133	Rinsing Fluid (aliphatic hydrocarbons)		16	~~~~~~~~.	
6134	Sodium Phosphate		1 <b>b</b> .	*****	221
6135	Corrosion Preventative Compound (petroleum derivative)		1 <b>b</b>	~~~~	
6136	Antisetting Compound Decon Slurry (sodium tripolyphosphate, citric acid, calcium oxide)		1 <b>b</b>	·	
6137	Latex Paint		1 <b>b</b>	******	
6138	Calcium Hypochlorite, less than 30%	;	1 <b>b</b> .		******

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	chlorine				
6139	Combustible Liquids (fp 140/F to 199/F)		1 <b>b</b>		
6140	Dielectric Fluid (non PCB)		15	******	
6141	Caulking Compound (silcone and butyl)		1 <b>b</b>		
6142	Copper Chloride (cupric chloride) waste		1 <b>b</b>		
6143	Nickel Sulfamate		16		
6144	Fog Oil (petroleum hydrocarbons; petroleum oil)		1Ъ		
6145	Emulsifier (petroleum surfactants)		16		
6146	Tricresyl Phosphate (tritolyl phosphate)		1 <b>b</b>		
6147	Ethylene Glycol Monobutyl Ether/ Ethylene Glycol Monomethyl Ether		16		
6148	Firefighting Foam (hexylene glycol and dichlorophene)		1 <b>b</b>		
6149	Lubricant, petroleum and synthetic		1 <b>b</b>	<b>******</b>	
6150	Corrosion Inhibitor (petroleum distillates, stoddard solvent)		1 <b>b</b>		
6151	Corrosion Inhibitor (mineral oil, isoparaffin hydrocarbons)		1 <b>b</b>		
6152	Leak Detection Compound (ethylene glycol, surfactant, water)		1 <b>b</b>		
6153	Acetate		16		
6154	Tallow, Inedible		1 <b>b</b>		
6155	Organotin		1 <b>b</b>		
6156	Urethane		1 <b>b</b>		
6157	Water contaminated with approx. 10% petroleum products		1 <b>b</b>		
6158	Ferric Chloride Solution		1 <b>b</b>		
6159	Ethylenediaminetetraacetic Acid (EDTA)		1 <b>b</b>	aaf 255aa48	
6160	Diethylenediamine (piperasine)		16		3
6161	Dimethyl Sulfoxide (methyl sulfoxide; DMSO)		1 <b>b</b>		
6162	Petroleum Lubricants (used) contam- inated with (but not limited to) diesel and burner fuels, ethylene glycol, water, and dirt		16		r •
6163	Water contaminated with cutting oil		1 <b>b</b> -		

MASTER	CLIM L	157	8/30/89
EESTEE	CLIE L	191	0/34/00

ITEM NO.	SUPPLIES/SERVICES	EST.QTY.	UNIT	UNIT PRICE	AMOUNT
	•				
6164	Oil, mixed, engine, hydraulic, brake, diesel, and heating		16	****	
6165	Nickel Acetate		1 <b>b</b>		
6166	Neopentyl Glycol (2,2-dimethyl-1, 3-propanediol)	•	1 <b>b</b>	70000000	********
6167	Polytetramethylene Ether Glycol (polymeg)		1 <b>b</b>		<b>,</b>
6168	Triethylene Glycol (TEG)		1 <b>b</b>		
8000 - 8099	MEDICAL ITEMS (NOW-RCRA)	n/a			
8000	Storage container placed at pick-up site.				<i></i>
8001	Medical Items, non-controlled, condemned, (Non-RCRA). Incineration required (see C.73).		1ъ		·
8002	Medical Items, non-controlled, condemned, (Non-ECRA)		16		++ <del>++++</del>

Table A3

DRMS PCB CLIN List

TEM NO.	SUPPLIES/SERVICES	EST. CTY.	UNIT	UNIT PRICE	AMOUNT
7000 - 7099	FOLYCHLORINATED BIPHENYLS (PCBs) ,40 CFR PART 761)	n/a			
7000 -7099	Articles (other than transformers & capacitors) 500 ppm and over PCB		15		
-201	Articles (other than transformers & capacitors) 500 ppm and over PCB (drained)		lb		
~002	Articles (other than transformers & capacitors) 50-499 ppm PCB		1 b		
~003	Articles (other than transformers & capacitors) 50-499 ppm PCB (drained)		1 b		
7004	Articles (other than transformers & capacitors) less than 50 ppm PCB		1 b		
7005	Articles (other than transformers & capacitors) less than 50 ppm PCB (drained)		1 b		
7006	Mixed PCB items		15		
7 <b>007</b>	Transformers 500 ppm and over PCB		16		
7008	Transformers 500 ppm and over PCB (drained)		16		
2009	Transformers 500 ppm & over PCB (sealed)		1b		
7010	Transformers 50-499 ppm PCB		1 <b>b</b>		
7011	Transformers 50-499 ppm PCB (drained)		16	***	
7012	Transformers less than 50 ppm PCB		Ip	****	
7013	Transformers less than 50 ppm PCB (drained)		1 <b>b</b>		
7014	Small Capacitors 500 ppm and over PCB		1b	********	
7015	Large Capacitors 500 ppm and over PCB		1 <b>b</b>		

TTEM NO.	SUPPLIES/SERVICES	EST. QTY.	UNIT	UNIT PRICE	AMOUNT
7016	Small Capacitors 500 ppm and over PCB (drained)		1 <b>b</b>		
7017	Large Capacitors 500 ppm and over PCB (drained)		lb		
7018	Small Capacitors 50-499 ppm PCB		16		
7019	Large Capacitors 50-499 ppm PCB		l b		
T020	Small Capacitors 50-499 ppm PCB (drained)		lb		
7021	Large Capacitors 50-499 ppm PCB (drained)		16		
70 <b>22</b>	Small Capacitors less than 50 ppm PCB		lb		
7023	Large Capacitors less than 50 ppm PCB		16		
7024	Small Capacitors less than 50 ppm PCB (drained)		1 <b>b</b>		
7025	Large Capacitors less than 50 ppm PCB (drained)		1 <b>b</b>		
70 <b>26</b>	Sweeping Compound, PCB contaminated .		16		
7 <b>027</b>	Pallets, PCB contaminated		16		
70 <b>28</b>	Debris (example: rags, cans, drums, wood) PCB contaminated		16		
7029	Soil, PCB contaminated		lb		
7030	Liquid 500 ppm and over PCB		16		
7031	Liquid 50-499 ppm PCB		1 <b>b</b>		
<b>7032</b>	Liquid less than 50 ppm PCB		1 <b>b</b>		

ITEM NO.	SUPPLIES/SERVICES	EST. QTY.	UNIT	UNIT PRICE	AMOUNT
7033	Liquid and/or solid mixtures with PCBs less than 50 ppm may be contaminated with (but not limited to ) solvents, oils, water, acid sludges (disposal may be required at a facility with TSCA and RCRA permits)		1 <b>b</b>		
10 <b>34</b>	Liquid and/or solid mixtures with PCBs 50-499 ppm may be contaminated with (but not limited to) solvents, oils, water, acid sludges (disposal may be required at a famility with TSCA & RCRA permits)		1 <b>b</b>		
7235	Liquid and/or solid mixtures with PCBs 500 ppm and over may be contaminated with (but not limited to) solvents, oils, water, acid sludges (disposal may be required at a facility with TSCA and RCRA permits)		lb		
70 <b>36</b>	PCB contaminated sludge (over 500 ppm)		1 <b>b</b>		
70 <b>37</b>	PCB contaminated sludge (50-499 ppm)		1 <b>b</b>		
70 <b>38</b>	PCB contaminated sludge (less than 50 ppm)		16	******	
70 <b>39</b>	Debris (example: rags, cans. drums, wood, soil) with water; PCB contaminated		16		

### APPENDIX B:

# METAL PLATING WASTE CATEGORY (HIGH INTEREST)

CLIN	Supplies/Services	Unit*	Category
2900-3099	Metal plating/metal stripping waste	e N/A	Metal Plating
2041	Plating waste, may be contaminated with (but not limited to) heavy metals	lb	EP Toxic
2128	Plating waste, may be contaminated with (but not limited to) heavy metals	gl	EP Toxic
2130	Plating waste, may be contaminated with (but not limited to) chromium		EP Toxic

<sup>&#</sup>x27;lb = pound; gl = gallon. NOTE: N/A = not applicable.

 $<sup>^{\</sup>circ}$ CLINs 2914 and 2924 not included because they are sludges.

APPENDIX C:
BATTERIES AND BATTERY ELECTROLYTES CATEGORY (HIGH INTEREST)

CLIN	Supplies/Services	Unit*	Category
0500-0599	Batteries	N/A	Batteries
1309	Battery electrolyte (sulfuric acid)	gl	Corrosive Acids
1333	Battery electrolyte (sulfuric acid)	1b	Corrosive Acids
6102	Batteries, magnesium	1b	Non-RCRA

<sup>\*</sup>gl = gallon; lb = pound. NOTE: N/A = not applicable.

APPENDIX D: SLUDGE CATEGORY (HIGH INTEREST)

CLIN	Supplies/Services	Unit	Category
1362	Chromic acid sludge, may be contaminated with (but not limited to) heavy metals, paints, and dirt	1b	Corrosive Acids
1366	Nitric acid sludge	lb	Corrosive Acids
1367	Sodium bisulfate sludge (sodium acid sulfate sludge)	1b	Corrosive Acids
1370	Hydrochloric acid sludge	1b	Corrosive Acids
1374	Sulfuric acid sludge with (but not limited to) water (approx. 50%) sodium bicarb, and lead sulfate	1b	Corrosive Acids
1560	Sulfuric acid sludge	1b	Corrosive Acids
1561	Phosphoric acid sludge	gl	Corrosive Acids
1565	Chromic acid sludge, may be contaminated with (but not limited to) heavy metals, paints, and dirt	gl	Corrosive Acids
1569	Nitric acid sludge	gl	Corrosive Acids
1570	Sodium bisulfate sludge (sodium acid sulfate sludge)	gl	Corrosive Acids
1573	Hydrochloric acid sludge	gl	Corrosive Acids
1578	Sulfuric acid sludge with (but not limited to) water (approx. 50%) sodium bicarb, and lead sulfate	gl	Corrosive Acids
1680	Sodium hydroxide sludge	1b	Corrosive Base
1907	Sodium hydroxide sludge	gl	Corrosive Base
2025	Skimmer sludge contaminated with cadmium	lb	EP Toxic
2026	Sludge contaminated with lead and mercury	lb	EP Toxic
2027	Sludge contaminated with trivalent chrome	1b	EP Toxic
2029	Phosphate sludge, may be contaminated with (but not limited to) heavy metals, paints, and dirt	lb	EP Toxic

APPENDIX D - continued

CLIN	Supplies/Services	Unit	Category
2030	Zinc phosphate sludge, may be contaminated with (but not limited to) heavy metals, paints and dirt	1b	EP Toxic
2031	Aluminum coating solution/sludge, may be contaminated with (but not limited to) heavy metals, nitrating acids, salts, paints, and oils	1b	EP Toxic
2035	Manganese phosphate sludge, may be contaminated with (but not limited to) heavy metals, cyanides, nitrating acids, and solvents	1b	EP Toxic
2039	Electroplating sludges, may be contaminated with (but not limited to) heavy metals	1b	EP Toxic
2042	Plating sludge, may be contaminated with (but not limited to) chromium	1b	EP Toxic
2102	Skimmer sludge contaminated with cadmium	gl	EP Toxic
2103	Sludge contaminated with lead and mercury	gl	EP Toxic
2104	Sludge contaminated with trivalent chrome	gl	EP Toxic
2108	Phosphate sludge, may be contaminated with (but not limited to) heavy metals, paints, and dirt	gl	EP Toxic
2109	Zinc Phosphate, sludge may be contaminated with (but not limited to) heavy metals, paints, and dirt	gl	EP Toxic
2111	Aluminum coating solution/sludge, may be contaminated with (but not limited to) heavy metals, nitrating acids, salts, paints, and oils	gl	EP Toxic
2115	Manganese phosphate sludge, may be contaminated (but not limited to) heavy metals, cyanides, nitrating acids, and solvents	gl	EP Toxic
2119	Lead azide sludge (nonreactive/non-explosive per U.S. Bureau of Mines testing)	1b	EP Toxic

APPENDIX D - continued

CLIN	Supplies/Services	Unit	Category
2122	Debris contaminated with lead azide sludge (nonreactive/non-explosive per U.S. Bureau of Mines testing)	lb	EP Toxic
2123	Electroplating sludges, may be contaminated with (but not limited to) heavy metals, petroleum products, solvents and cyanides	gl	EP Toxic
2129	Plating sludge, may be contaminated with (but not limited to) chromium	gl	EP Toxic
2133	Sludge, may be contaminated with (but not limited to) trivalent chrome, cadmium, heavy metals, and metals	lb	EP Toxic
2141	Sludge, heavy metal hydroxide, contains oil, and grease	lb	EP Toxic
2911	Cyanide plating sludge	gl	Metal Plating/ Metal Stripping
2912	Nickel sludge, may be contaminated with (but not limited to) heavy metals	gl	Metal Plating/ Metal Stripping
2914	Plating treatment wastewater sludge, may be contaminated with (but not limited to) heavy metals	gl	Metal Plating/ Metal Stripping
2924	Plating treatment wastewater sludge, may be contaminated with (but not limited to) heavy metals	lb	Metal Plating/ Metal Stripping
3137	Paint wastewater treatment sludge, may be contaminated with (but not limited to) paint, dirt, heavy metals	1b	Paints
3309	Paint wastewater treatment sludge, may be contaminated with (but not limited to) paint, dirt, heavy metals	gl	Paints
4754	Filter press sludge, contaminated with heavy metals, phenols, halogenated and nonhalogenated solvents, moisture content of 15 to 20% but no free liquids	1b	Solvents
4755	IWTP sludge containing solvents and heavy metals	lb	Solvents ·

APPENDIX D - continued

CLIN	Supplies/Services	Unit'	Category
2921	Cyanide plating sludge	lb	Metal Plating/ Metal Stripping
2922	Nickel sludge, may be contaminated with (but not limited to) heavy metals	lb	Metal Plating/ Metal Stripping
3310	Paint, partially solidified (solids, sludges, liquids, or any combination of solids, liquids, and/or sludges)	lb	Paints
3911	Oil/oil sludge from water separator or tank	gl	POL
3915	Oil sludge	gl	POL
3935	Oil quench bath sludge, may be contaminated with (but not limited to) cyanides	gl	POL
3941	Oil/oil sludge from water separator or tank	lb	POL
3945	Oil sludge	lb	POL
3961	Oil quench bath sludge, may be contaminated with (but not limited to) cyanides	lb	POL
4581	Methylene chloride sludge	1b	Solvents
4582	Tetrachloroethylene (perchloroethylene) sludge	lb	Solvents
4583	Trichloroethylene sludge	1b	Solvents
4593	Trichloroethane sludge	lb	Solvents
4710	Methylene chloride sludge	gl	Solvents
4711	Tetrachloroethylene (perchloroethylene) sludge	gl	Solvents
4712	Trichloroethylene sludge	gl	Solvents
4727	Trichloroethane sludge	gl	Solvents

\*lb = pound; gl = gallon;
NOTE: POL = petroleum, oils, lubricants.

APPENDIX E:
USED OIL CATEGORY (HIGH INTEREST)

CLIN	Supplies/Services	Unit	Category
3907	Grease contaminated with oils	1b	POL
3914	Oil, may be contaminated with (but not limited to) chromium, lead, and solvents	gl	POL
3918	Oil contaminated with water	gl	POL
3921	Oil, may be contaminated with (but not limited to) dirt, water, diesel fuel, thinners, solvents, paint, ethylene glycol, turpentine, and gasoline	gl	POL
3922	Hydraulic fluid with (but not limited to) heavy metals and solvents	gl	POL
3925	Lubricant, petroleum	gl	POL
3926	Oil, synthetic	gl	POL
3929	Oil, may be contaminated with (but not limited to) grease and water	gl	POL
3930	Hydraulic fluid	gl	POL
3932	Petroleum lubricants (used), could be contaminated with (but not limited to) diesel and burner fuels, ethylene glycol, water, and dirt	gl	POL
3934	Oil contaminated with (but not limited to) lube and preservative oil, naptha, water, cyanide, and excess chlorine from cyanide reduction	gl	POL
3936	Oil, may be contaminated with (but not limited to) heavy metals	gl	POL
3944	Oil, may be contaminated with (but not limited to) chromium, lead, and solvents	lb	POL
3948	Oil contaminated with water .	1b	POL
3950	Oil, may be contaminated with (but not limited to) dirt, water, diesel fuel, thinners, solvents, paint, ethylene glycol, turpentine, and gasoline	lb	POL

APPENDIX E - continued

CLIN	Supplies/Services	Unit	Category
3951	Hydraulic fluid with (but not limited to) heavy metals and solvents	1b	POL
3954	Lubricant, petroleum	1b	POL
3955	Oil, synthetic	1b	POL
3956	Oil, may be contaminated with (but not limited to) grease and water	1b	POL
3957	Hydraulic fluid	lb	POL
3958	Petroleum lubricants (used), could be contaminated with (but not limited to) diesel and burner fuels, ethylene glycol, water, and dirt	1b	POL
3960	Oil contaminated with (but not limited to) lube and preservative oil, naptha, water, cyanide and excess chlorine from cyanide reduction	1b	POL
3962	Oil, may be contaminated with (but not limited to) heavy metals	lb	POL
6013	Brake fluid (polypropylene glycol, monobutyl ethers)	gl	non-RCRA
6014	Grease	1b	non-RCRA
6015	Hydraulic fluid	gl	non-RCRA
6024	Oil, jet engine	gl	non-RCRA
6025	Oil, synthetic	gl	non-RCRA
6026	Oil, lube	gl	non-RCRA
6072	Lubricant, petroleum and synthetic	gl	non-RCRA
6077	Lubricant	lb	non-RCRA
6098	Petroleum lubricants (used) contaminated with (but not limited to) diesel and burner fuels, ethylene glycol, water, and dirt	gl	non-RCRA

APPENDIX E - continued

CLIN	Supplies/Services	Unit.	Category
6100	Oil, mixed, engine, hydraulic, brake, diesel, and heating	gl	non-RCRA
6121	Brake fluid (polypropylene glycol, monobutyl ethers)	lb	non-RCRA
6122	Hydraulic fluid	1b	non-RCRA
6127	Oil, jet engine	lb	non-RCRA
6128	Oil, synthetic	1b	non-RCRA
6129	Oil, lube	1b	non-RCRA
6149	Lubricant, petroleum and synthetic	1b	non-RCRA
6162	Petroleum lubricants (used) contaminated with (but not limited to) diesel and burner fuels, ethylene glycol, water, and dirt	lb	non-RCRA
6164	Oil, mixed, engine, hydraulic, brake, diesel, and heating	1b	non-RCRA

'lb = pound; gl = gallon.
NOTE: RCRA = Resource Conservation and Recovery Act.

APPENDIX F:
UNIT COST SUMMARIES PER CLIN (NON-AMC)

				Unit Cost, \$	
Clin	Unit	Quantity	Maximum	Minimum	Average
0001	EA	7	30.00	10.00	20.53
0001	GL	26	6.00	.05	2.98
0001	LB	16	6.00	6.00	6.00
0002	EA	259	25.00	0.00	3.43
0002	EW <sup>a</sup>	3	25.00	25.00	25.00
0002	LB	13	4.00	.50	1.83
0003	EA	27	16.33	1.81	11.07
0004	EA	899	16.33	0.00	11.52
0005	EA	387	10.00	1.00 9.00	7.06 9.00
0005	GL LB	1 207	9.00 6.00	1.60	2.79
0005 0006	EA	764	0.00	0.00	0.00
0006	GL	81	8.00	4.31	6.25
0006	LB	192	6.15	6.15	6.15
0010	GL	13	5.00	5.00	5.00
0013	GL	1360	5.00	5.00	5.00
0014	LB	150	. 40	.40	.40
0015	GL	660	3.42	3.42	3.42
0017	GL	6	76.29	76.29	76.29
0018	GL	55	3.00	3.00	3.00
0020	GL	4	4.00	4.00	4.00
0020	LB	215	.50	.50	.50
0022	LB	230	. 40	.40	.40
0023	LB	722	7.00	7.00	7.00 .55
0024 0026	LB LB	7808 5	.55 .55	.55 .55	.55
0026	GL	50	1.97	1.97	1.97
0030	GL	50	2.17	2.17	2.17
0031	GL	5	2.17	2.17	2.17
0031	LB	186000	1.00	1.00	1.00
0033	GL	55	15.79	15.79	15.79
0036	GL	165	8.29	8.29	8.29
0039	GL	5	5.00	5.00	5.00
0041	GL	951	1.97	1.97	1.97
0042	LB	104	5.00	5.00	5.00
0045	GL	30	5.50	5.50 1.92	5.50
0050 0052	GL GL	6000 540	1.92 6.00	1.92	1.92 2.31
0054	GL GL	63	5.00	5.00	5.00
0056	GL	990	15.79	15.79	15.79
0057	GL	55	1.97	1.97	1.97
0058	GL	312	4.20	4.20	4.20
0062	GL	5	1.97	1.97	1.97
0064	GL	5	5.00	5.00	5.00
0066	${ t GL}$	140	3.10	3.10	3.10
0071	GL	35	3.97	3.97	3.97
0077	GL	110	5.00	5.00	5.00
0081	GL	100	5.00	5.00 1.97	5.00
0083 0089	GL GL	100 80	1.97 8.29	8.29	1.97 8.29
0009	GL	278	8.29	5.00	5.12
0091	GL	1320	6.00	6.00	6.00
				<b>4.44</b>	

<sup>\*</sup>Apparent error in entry to database by DRMS; assume "EW" should be "EA" for each.

### APPENDIX F - continued

			Unit Cost, \$			
CLIN	Unit	Quantity	Maximm	Minimum	Average	
·						
0092	DR	1	528.59	528.59	528.59	
0092	GL	3053	6.00	2.90	3.79	
0094	GL	8350	2.90	2.90	2.90	
0095	GL	5	6.00	4.75	5.25	
0098	GL	30	2.00	2.00	2.00	
0101	LB	57	.38	.38	.38	
0103	GL	10	5.00	5.00	5.00	
0104	GL	495	2.67	2.07	2.55	
0106	GL	165	10.00	10.00	10.00	
0106	LB	346484	.11	.11	.11	
0107	GL	280	1.97	1.97	1.97	
0107	LB	9	2.09	2.09	2.09	
0108	GL LB	185 850	3.10 .36	3.10 .36	3.10 .36	
0109 0112	пр	0	0.00	0.00	0.00	
0112	LB	1601	.36	.36	.36	
0113	GL	6	10.00	10.00	10.00	
0114	GL	612	5.00	5.00	5.00	
0116	GL	33	5.00	5.00	5.00	
0118	GL	1045	5.00	5.00	5.00	
0125	GL	55	7.50	7.50	7.50	
0126	GL	140	3.10	3.10	3.10	
0132	GL	110	5.00	5.00	5.00	
0136	LB	75	5.00	5.00	5.00	
0137	GL	200	2.00	2.00	2.00	
0145	LB	200	1.00	1.00	1.00	
0147	LB	250	.40	.40	.40	
0151 0151	EA LB	9 3646	30.00 1.00	30.00 1.00	30.00 1.00	
0153	GL	15	3.00	3.00	3.00	
0154	GL	2	4.50	4.50	4.50	
0154	LB	4150	6.00	6.00	6.00	
0155	GL	2255	2.91	2.91	2.91	
0158	LB	81	.50	.50	.50	
0159	GL	8	4.00	4.00	4.00	
0160	LB	2	.50	.50	.50	
0161	GL	479	2.80	2.80	2.80	
0162	LB	490	.50	.50	.50	
0163	GL	10	3.60	3.60	3.60	
0164	LB	517	.35	.35	.35	
0203	EA	4	4.00	4.00	4.00	
0205 0206	GL	15	2.60	2.60	2.60	
0210	LB EA	4500 18	.50 4.00	.50 4.00	.50 4.00	
0210	GL	3	4.00	4.00	4.00	
0211	LB	1	.50	.50	.50	
0214	EA	2	8.00	8.00	8.00	
0221	EA	12	4.00	4.00	4.00	
0224	EA	38	4.00	4.00	4.00	
0225	EA	1	4.00	4.00	4.00	
0244	EA	10	4.00	4.00	4.00	
0245	EA	37	4.00	4.00	4.00	
0305	GL	1	.50	.50	.50	
0378	GL	950	.90	. 90	. 90	
0500 0501	LB LB	13482	2.00	.05	1.34	
0502	LB	198490 28994	16.00 1.30	.05 .45	5.21 .63	
0503	LB	5721	4.00	.05	1.12	
<del>-</del>		J. 2.			1.16	

APPENDIX F - continued

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	yAdiade
				22	0.2
0504	LN	130	.93	. 93 . 45	.93 .45
0506	LB	20	.45 3.50	.33	1.32
0507	LB	1756 34420	2.00	.38	.78
0508	LB LB	1	4.00	4.00	4.00
0509 0517	GL	i	4.00	4.00	4.00
0600	LB	13598	7.00	.20	4.74
0612	LB	33	5.35	2.00	3.68
1013	GL	4	5.00	5.00	5.00
1039	GL	30	2.99	2.99	2.99
1063	GL	485	3.60	3.60	3.60 1.31
1200	LB	908	6.00	.35 .30	.30
1201	5 <b>L</b> <sup>b</sup>	5	.30 0.00	0.00	0.00
1201	EA	78 479	4.00	0.00	1.51
1201	GL	321656	16.00	0.00	1.53
1201 1202	LB LB	10000	.56	.56	.56
1202	LB	36925	.35	.35	.35
1215	LB	1	.50	.50	.50
1300	EA	1	10.00	10.00	10.00
1300	GL	27	18.00	.05	6.29
1300	LB	31	1.00	1.00	1.00
1300	QT	6	15.00	15.00	15.00
1301	LB	66	15.00	3.00	5.40 3.22
1302	EA	164	10.00	1.00 .72	4.76
1303	EA	11 1500	12.00 .70	.72	.70
1304	GL	741	2.00	.10	.90
1304 1305	LB GL	2608	16.00	.50	2.86
1306	GL	3	1.00	1.00	1.00
1307	GL	30	2,99	2.99	2.99
1309	GL	16951	7.00	.50	3.30
1309	LB	30	2.99	2.59	2.99
1311	GL	5	2.00	2.00	2.00
1315	${ t GL}$	100	1.00	1.00	1.00 4.58
1317	GL	657	8.00	1.00	6.00
1320	PT	4	6.00	6.00 5.00	5.00
1506	LB	2	5.00 3.00	3.00	3.00
1556	GL	2 3	3.25	3.25	3.25
1561 1562	GL GL	580	16.00	16.00	16.00
1562	LB	2	3.25	3.25	3.25
1651	EA	174	15.00	3.62	10.97
1651	GL	74	8.00	.05	4.50
1652	EA	501	15.00	3.62	10.26
1652	LB	128	2.00	.05	.63
1653	EA	13	15.00	1.00	8.48
1654	EA	20	15.00	.78	7.09
1654	LB	7	2.00	2.00	2.00 12.00
1654	PG <sup>c</sup>	5	12.00	12.00 .05	.39
1655	LB	7877	1.00	.50	2.19
1656	GL	1100 6	6.00 4.90	3.25	3.80
1658 1659	GL LB	3000	1.50	.60	1.03
1003	ПĐ	3000	2.50	• • •	

<sup>\*</sup>Apparent error in entry to database by DRMS; assume "5L" should be "GJ" for gallon. "Apparent error in entry to database by DRMS; assume "PG" should be "PT" for pint.

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	yAdrade
1660	GL	75	2.82	1.58	2.20
1660 1660	LB	140	1.00	1.00	1.00
1662	GL	14	2.67	2.00	2.45
1665	L₿	2	.05	.05	.05
1668	LB	660	. 45	.45	. 45
1902	GL	201	5.50	3.00	4.30
1908	GL	5	3.00	3.00	3.00
1909	GL	1191	2.50	.83	1.80
1912	${ t GL}$	60	3.10	3.10	3.10
1912	LB	35	3.10	3.10	3.10 3.43
1913	GL	1203	5.00	.05 .20	.73
1914	LB	5184	1.25 35.00	1.56	12.89
2000	EA	6 27	6.00	1.00	4.22
2000 2000	GL LB	2	10.19	5.00	7.60
2001	EA	27	35.00	1.00	10.99
2001	LB	91	10.19	.50	3.35
2002	EA	1039	20.00	1.00	8.37
2002	OZ	3	11.00	11.00	11.00
2002	PT	9	14.00	14.00	14.00
2003	BT	14	11.00	11.00	11.00
2003	вх	1	11.00	11.00	11.00
2003	EA	455	20.00	1.56	10.31 5.86
2003	LB	101	11.00	.72 11.00	11.00
2003	OZ	9 12	11.00 11.00	11.00	11.00
2003	TU J.B	29246	1.37	.10	.51
2004 2005	EA	1	1.56	1.56	1.56
2005	<u>و۲</u>	3320	16.00	.50	2.47
2006	LB	138	8.00	.05	1.53
2007	GL	56	3.00	.50	1.75
2014	GL	322	3.00	3.00	3.00
2019	GL	50	3.00	3.00	3.00
2100	LB	61140	. 60	.20	.47
2101	GL	52	4.00	1.78 2.99	3.68 2.99
2105	GL	1	2.99 .62	.62	.62
2117	LB	2 220	4.90	4.90	4.90
2118 2120	GL LB	182	3.00	.20	1.47
2121	GL	1855	3.97	1.00	2.31
2126	LB	3600	.40	.40	.40
2131	LB	195	.60	.60	.60
2133	YD	400	195.00	195.00	195.00
2300	EA	136	14.04	1.00	7.51
2300	${ t GL}$	108	24.30	.50	4.47
2300	LB	3	10.00	8.19	9.10
2300	QT	1	20.00	20.00	20.00
2301	EA	2	15.00	2.67	8.84 4.06
2301	LB	37 21.6	20.00 16.33	.98 1.81	5.67
2302	EA	216 6	1.00	1.00	1.00
2302 2302	LB PT	3	14.00	14.00	14.00
2302	BT	2	14.00	14.00	14.00
2303	EA	118	15.00	1.49	7.77
2303	OZ	4	14.00	14.00	14.00
2304	GL	15	.50	.10	.38
2304	LB	16190	1.20	.10	.68
2305	GL	7798	16.00	.10	3.74
2306	LB	98	5.85	1.00	3.64

APPENDIX F - continued

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
0007	~ ~	21	10.00	10.00	10.00
2307	EA LB	21 1476	10.00 2.00	10.00 0.00	10.00 1.00
2307 2308	GL	200	8.29	1.00	3.58
2309	GL	15	2.99	2.99	2.99
2310	GL	1769	10.00	.05	2.58
2311	GL	3035	4.73	.10	2.31
2314	GL	64	4.73	2.05	3.25
2315	EA	3	1.00	1.00	1.00
2315	${f GL}$	2789	3.50	.50	2.69
2316	GL	3971	4.73	.10	2.70
2320	GL	330	.10	.10	.10
2321	${ t GL}$	5	2.00	2.00	2.00
2321	LB	17	1.00	.10	.40
2322	GL	133	3.19	.10	1.76
2328	GL	53	.10	.10	.10
2329	LB	32962	2.00	.05	.40 2.33
2330 2332	GL	30 2585	3.66 .33	1.00 .33	.33
2332	LB GL	2363	3.35	3.35	3.35
2345	GL	156	5.00	.05	1.71
2359	GL	90	4.00	4.00	4.00
2395	GL	4	.50	.50	.50
2715	GL	17	.50	.50	.50
2800	EA	92	5.00	5.00	5.00
2800	GL	84	9.19	.05	1.61
2800	ΟZ	2	3.00	3.00	3.00
2801	EA	77	4.00	4.00	4.00
2801	LB	574	9.19	.05	6.79
2802	EA	55	3.00	3.00	3.00
2803	EA	34 10	3.00	3.00 16.00	3.00
2803 2804	GL LB	383	16.00 .50	.45	16.00 .46
2805	GL	276	23.45	2.00	11.63
2806	LB	22	9.50	.05	4.78
2901	GL	94	5.50	4.00	4.75
2914	GL	2310	3.00	3.00	3.00
2914	LB	5882	3.25	3.25	3.25
2921	${ t GL}$	50	2.50	2.50	2.50
3002	EA	1	1.56	1.56	1.56
3100	EA	816	16.33	3.39	7.58
3100	${ t GL}$	55	11.00	1.00	7.25
3100	PT	3	10.00	10.00	10.00
3101	LB	12	2.00	.98	1.66
3102	EA	50	10.00	1.81	6.27
3103 3103	EA	1 48	25.00	25.00	25.00
3103	LB LB	12756	1.00 4.00	1.00 .10	1.00 .86
3105	G4 <sup>d</sup>	50	.85	.85	.85
3105	GL	10345	10.36	.10	3.27
3105	LB	10	2.83	2.83	2.83
3106	GL	2	3.29	3.29	3.29
3106	LB	261	14.00	.33	3.32
3107	GL	123	9.83	.50	2.61
3108	GL	1122	3.80	.05	2.06
3109	GL	7	.50	.50	.50
3110	${ t GL}$	39	9.83	3.00	5.12

 $<sup>^{\</sup>rm d}{\rm Apparent}$  error in entry to database by DRMS; assume "G4" should be "GL" for gallon.

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
- <u>-</u> -					
3111	GL	16	1.38	1.38	1.38
3112	GL	694	6.35 3.50	.05 .50	2.79 1.50
3113 3114	GL GL	16 195	9.83	.50	4.03
3150	GL	20	4.00	4.00	4.00
3300	GL	23021	6.50	0.00	2.53
3301	LB	67	4.00	4.00	4.00
3302	GL	165	3.00	3.00	3.00
3303	GL	110	4.50	4.50	4.50
3305	GL	3354	10.36	.25	4.49
3306	LB	17692	.90	.33	.56
3307	LB	369 4000	3.00 .63	.45 .63	1.07 .63
3308 3309	GL GL	2090	4.00	4.00	4.00
3350	GL	2603	5.00	5.00	5.00
3400	EA	11	25.00	14.00	21.33
3401	EA	21	25.00	5.60	16.39
3401	LB	15	35.00	5.00	8.00
3402	EA	181	20.00	9.00	12.50
3403	EA	98	20.00	3.96	13.69
3404	LB	958	7.00	.10	2.83
3405	GL	1175	32.00	.05	6.91 5.71
3406	EA	157 129	5.71 5.00	5.71 5.00	5.00
3406 3410	LB GL	32	.05	.05	.05
3410	LB	80	2.60	1.50	2.03
3411	GL	10	20.00	5.00	10.00
3416	LB	300	4.00	1.50	2.33
3417	GL	80	5.00	5.00	5.00
3420	LB	147	3.40	1.50	1.88
34405	GL	2	5.00	5.00	5.00
3560	GL	55 4335	3.00	3.00	3.00
3603	GL	4335 39	3.00 3.39	3.00 3.39	3.00 3.39
3700 3700	EA GL	38	3.00	3.00	3.00
3701	LB	345	1.00	.05	.92
3702	EA	3	1.81	1.81	1.81
3704	LB	240	.40	.40	.40
3705	GL	2107	4.24	.50	2.50
3705	LB	30	.50	.50	.50
3707	GL	874	6.00	.05	2.70
3708	GL	10	6.00	6.00 .50	6.00 .50
3709 3710	GL GL	10 269	.50 .50	.50	.50
3711	GL	10	1.00	1.00	1.00
3717	LB	10	.50	.50	.50
3720	LB	736	.50	. 40	. 45
3900	EA	54	11.50	3.39	8.46
3900	GL	11	9.83	.50	5.07
3902	EA	18	16.33	1.81	6.79
3904	GL	1 9 4 2 7	.12	.12	.12
3904 3905	LB GL	18427 19567	2.00 16.00	.10 .10	.59 2.30
3905	LB	275	2.00	2.00	2.00
3907	LB	24500	1.07	1.07	1.07
3909	GL	953	3.00	.10	1.64
3910	GL	201	1.91	.90	1.27
3911	GL	75830	4.80	1.00	2.50
3914	GL	6003	4.73	.50	1.92

APPENDIX F - continued

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	<u>Minimum</u>	Average
2015	CI	250	3.00	3.00	3.00
3915 3916	GL GL	250 9993	3.50	.05	.77
3918	GL	13076	3.59	.50	2.04
3919	LB	350	1.58	.24	.91
3920	GL	1870	3.00	.31	2.45
3920	LB	116007	2.25	2.25	2.25
3921 3921	GL LB	116997 340	4.73 .50	0.00 .50	2.61 .50
3922	GL	226	2.67	2.52	2.60
3923	GL	20	4.73	3.00	3.86
3924	GL	40	1.00	1.00	1.00
3925	GL	2228	3.59	.50	2.76
3926	GL	260	2.84	2.00	2.42 2.09
3928 3929	GL GL	18017 8658	3.00 3.00	.60 .50	2.09
3929	LB	500	2.67	2.67	2.67
3930	GL	125	3.59	.74	1.39
3932	GL	400	1.50	1.50	1.50
3933	GL	1154	4.00	4.00	4.00
4105	GL	45	2.00	2.00	2.00
4200	EA	111	20.48	20.48 10.00	20.48
4200	GL EA	4 63	10.00 9.48	8.88	10.00 9.18
4201 4201	EA LB	41	7.00	.82	4.58
4202	LB	208	.93	.93	.93
4203	EA	22	45.00	3.15	16.50
4204	GL	9	10.00	10.00	10.00
4204	LB	451	6.00	.68	5.68
4205	${ t GL}$	1	3.00	3.00	3.00
4207	GL	1	5.70	5.70	5.70
4500	EA	18	30.00	3.31	10.96
4500	GL D	241 285	36.00	.50 18.00	11.90 18.00
4500 4502	PT EA	16	18.00 45.00	6.22	16.00
4504	LB	1064	2.50	1.25	1.67
4505	GL	7446	16.00	.10	4.11
4505	LB	1045	3.22	3.22	3.22
4506	LB	58	5.00	2.00	3.13
4507	GL	189	2.33	.50	1.21
4518	GL	306	5.84	.10	2.62
4519	GL	53 766	6.00	5.00	5.50
4520 4522	GL GL	766 1	6.00 1.00	.50 1.00	3.06 1.00
4526	GL	311	9.47	.10	5.25
4527	GL	11	3.10	2.33	2.72
4527	LB	1	6.00	6.00	6.00
4528	${ t GL}$	2537	8.50	2.04	6.26
4528	LB	1190	8.50	2.04	5.27
4529 4531	GL	170	8.50	.50	3.25
4531	GL GL	110 668	3.00 8.00	3.00 .10	3.00 3.40
4533	GL	1	3.00	3.00	3.00
4536	GL	27	6.00	.05	3.26
4700	GL	1	1.65	1.65	1.65
4704	GL	2371	16.00	.05	7.40
4704	LB	3625	9.47	9.47	9.47
4705 4706	GL GI	30606	16.00	.10	6.54
4706	GL GL	73 130	5.00 8.50	2.00 8.50	3.00 8.50
	Q.D	130	0.50	0.50	0.50

714 GL 192 6.00 6.00 6.00 6.00 4715 GL 550 5.25 3.00 4.50 4719 LB 2155 1.57 1.13 1.26 4720 LB 1200 3.00 3.00 3.00 3.00 4721 LB 1200 3.00 3.00 3.00 3.00 4721 LB 1591 2.57 5.50 9.91 4722 GL 3054 12.00 1.0 7.40 4723 GL 55 16.00 16.00 16.00 4724 GL 5335 5.50 1.95 3.96 4731 GL 5335 5.50 1.95 3.96 4732 GL 1032 5.50 1.75 2.62 4738 GL 210 3.23 3.23 3.23 4738 GL 220 4.94 4742 GL 15595 4.00 1.43 3.88 681 2 2 0 1.0 3.23 3.23 3.23 681 2 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3					Unit Cost, \$	
4715         GL         550         5.25         3.00         4.50           4719         LB         2155         1.57         1.13         1.26           4720         LB         1200         3.00         3.00         3.00           4720         LB         1200         3.00         3.00         3.00           4721         LB         1591         2.57         .50         .91           4722         GL         3054         12.00         .10         7.40           4723         GL         5         16.00         16.00         16.00           4731         GL         253         5.50         1.95         3.84         4.28           4732         GL         1032         5.50         1.95         3.62         4736         GL         210         3.23	CLIN	Unit	Quantity	Maximum	Minimum	yverage
4715         GL         550         5.25         3.00         4.50           4719         LB         2155         1.57         1.13         1.26           4720         LB         1200         3.00         3.00         3.00           4720         LB         1200         3.00         3.00         3.00           4721         LB         1591         2.57         .50         .91           4722         GL         3054         12.00         .10         7.40           4723         GL         5         16.00         16.00         16.00           4731         GL         253         5.50         1.95         3.84         4.28           4732         GL         1032         5.50         1.95         3.62         4736         GL         210         3.23	4714	GL	192	6.00	6.00	6.00
4716 GL 350 9.47 9.47 9.47 4719 LB 2155 1.57 1.13 1.26 4720 GL 39120 10.36 2.20 4.94 4721 LB 1591 2.57 .50 3.00 3.00 4721 LB 1591 2.57 .50 .91 4722 GL 3054 12.00 .10 7.40 4723 GL 5 16.00 16.00 16.00 4725 GL 253 5.00 3.84 4.28 4731 GL 5345 5.50 1.95 3.96 4732 GL 1032 5.50 .75 2.62 4738 GL 210 3.23 3.23 3.23 3.23 4738 GL 25 6.07 6.07 6.07 4740 GL 7 9.47 9.47 9.47 4742 GL 15595 4.00 1.43 3.85 4818 GL 1 5595 4.00 1.43 3.85 5000 EA 17 4.70 3.10 3.90 5001 GL 17 4.00 1.00 3.14 5001 GL 1 2.00 2.00 2.00 5002 EA 2 2.40 2.40 2.40 2.40 5003 GL 416 9.47 1.00 1.68 5005 GL B 55 2.00 2.00 2.00 5002 EA 2 2.40 2.40 2.40 2.40 5005 GL B 55 3.50 3.50 3.32 5010 GL 1057 6.00 2.00 2.00 5007 GL 3552 8.00 1.50 5.33 5010 GL 1057 6.00 2.00 2.00 5007 GL 3552 8.00 1.50 5.35 5010 GL 1057 6.00 2.00 3.00 5025 GL 55 2.25 2.25 2.25 5020 DR 11 600.00 1.50 3.28 5012 GL 1057 6.00 2.00 3.00 5025 GL 55 5.225 2.25 2.25 5020 DR 11 600.00 1.50 3.28 5012 GL 1057 6.00 2.00 3.00 5025 GL 55 5.225 2.25 2.25 5020 DR 11 600.00 1.50 3.28 5010 GL 1057 6.00 2.00 3.00 5025 GL 55 2.25 2.25 2.25 5020 DR 11 600.00 1.50 3.28 5012 GL 10 4.00 4.00 4.00 4.00 5025 GL 55 3.00 3.00 3.00 3.00 5050 LB 555 2.25 2.25 2.25 5002 DR 11 600.00 1.50 3.28 5011 GL 55 5.00 5.00 5.00 5.50 5000 EA 8 16.33 12.29 12.87 5500 LB 260953 2.00 0.00 5.50 5501 GL 50 5.50 5.50 5500 EA 8 16.33 12.29 12.87 5500 EB 3560 2.24 2.24 2.24 5503 LB 3560 2.25 2.25 5.25 5502 DR 11 600.00 1.50 3.75 5600 EA 8 16.33 12.29 12.87 5600 EA 8 16.33 1.00 6.95 5601 LB 260953 2.00 1.00 1.00 1.00 5501 LB 260953 2.00 2.00 2.00 2.00 5600 EA 8 16.33 12.29 12.87 5600 EA 8 16.33 10.00 6.95 5600 EA 8 16.33 10.00 6.95 5600 EA 8 16.33 10.00 6.90 5600 EA 8 16.00 6.00 6.00 6.00 6.00 5600 EA 8 18.00 6.00 6.00 6.00 6.00 5600 EA 8						
4719 LB 2155 1.57 1.13 1.26 4720 LB 1200 3.00 3.00 3.00 4721 LB 1201 3.00 3.00 3.00 3.00 4722 GL 3054 12.00 1.0 7.40 4722 GL 3054 12.00 1.0 7.40 4723 GL 5 16.00 16.00 4725 GL 253 5.00 3.84 4.28 4731 GL 5455 5.50 1.95 3.96 4732 GL 1032 5.50 7.5 2.62 4738 GL 210 3.23 3.23 3.23 4738 GL 25 6.07 6.07 4740 GL 7 9.47 9.47 9.47 4740 GL 7 9.47 9.47 9.47 4740 GL 1 5595 4.00 1.43 3.85 4818 GL 1 5.50 5.50 5.50 5.50 5.50 5000 GL 17 4.00 1.00 3.14 5001 LB 6 8.00 8.00 8.00 5002 EA 2 2 2.40 2.40 2.40 5003 LB 6 8.00 8.00 8.00 5002 EA 2 2 2.40 2.40 2.40 5003 LB 6 6 3.50 3.50 3.50 5007 GL 3532 8.00 1.50 5.33 5010 GL 1057 6.00 2.00 2.00 5001 LB 6 6 3.50 3.50 3.50 5007 GL 3532 8.00 1.50 5.33 5010 GL 1057 6.00 2.00 2.00 5001 LB 6 6 3.50 3.50 3.50 5007 GL 3532 8.00 1.50 5.33 5010 GL 1057 6.00 2.00 2.00 5001 LB 6 6 3.50 3.50 3.50 5007 GL 3532 8.00 1.50 5.33 5010 GL 1057 6.00 2.00 2.00 5001 LB 6 6 3.50 3.50 3.50 5007 GL 3532 8.00 1.50 5.33 5010 GL 1057 6.00 2.00 2.00 5001 LB 6 6 3.50 3.50 3.50 5007 GL 3532 8.00 1.50 5.33 5011 GL 900 8.00 5.0 3.28 5012 GL 10 4.00 4.00 4.00 4.00 5025 GL 5 5 2.25 2.25 2.25 2.55 5500 LB 3560 2.24 2.24 2.24 5550 LB 3560 2.24 2.24 2.24 5503 LB 515 5.52 5.52 5.52 5500 LB 360 5.00 5.00 5.50 5501 LB 515 5.52 5.52 5.52 5500 LB 360 6.65 6.65 5501 LB 515 5.52 5.52 5.52 5500 LB 360 6.5 1.00 3.75 5600 EA 8 1.36 3.30 1.00 1.00 1.00 5501 LB 515 5.52 5.52 5.52 5500 LB 360 6.5 1.00 3.75 5600 EA 8 16.33 12.29 12.87 5600 EA 8 16.33 12.90 1.00 1.00 7.00 5601 LB 276 1.00 1.00 1.00 7.00 5600 EA 3 39 20.00 1.00 1.00 1.00 7.00 5600 GL 26 3 39 20.00 1.00 1.00 7.00 5600 GL 26 3 39 30.00 1.00 1.00 7.00 5600 GL 26 3 39 30.00 1.00 1.00 1.00 7.00 5600 GL 26 3						
4720 GL 39120 10.36 2.20 4.94 4721 LB 1591 2.57 .50 .91 4722 GL 3054 12.00 .10 7.40 4723 GL 55 16.00 16.00 16.00 4725 GL 253 5.00 3.84 4.28 4731 GL 5545 5.50 1.95 3.96 4732 GL 1032 5.50 1.95 3.96 4738 GL 210 3.23 3.23 3.23 4738 GL 25 6.07 6.07 6.07 6.07 4744 GL 15595 4.00 1.43 3.85 4818 GL 7 9.47 9.47 9.47 4742 GL 15595 4.00 1.43 3.85 5000 EA 17 4.70 3.10 3.90 5000 EA 17 4.70 3.10 3.90 5001 GL 1 2.00 2.00 2.00 5001 GL 1 2.00 2.00 2.00 5002 EA 2 2.40 2.40 2.40 2.40 5003 LB 6 8 8.00 8.00 8.00 5005 GL 4416 9.47 10 1.68 5005 GL 4416 9.47 10 1.68 5005 GL 1057 6.00 2.00 2.00 5006 LB 6 3.50 3.50 3.50 5007 GL 33532 8.00 1.50 5.33 5011 GL 900 8.00 1.50 3.31 5011 GL 900 8.00 1.50 5.33 5011 GL 900 8.00 1.50 3.28 5002 BA 8 16.33 12.29 12.87 5500 BB 55 5.25 5.25 5.25 5500 BR 11 600.00 115.68 236.76 5501 GL 55 5.50 5.50 5.50 5.50 5.50 5501 GL 6.60 5.50 5.50 5.50 5.50 5501 GL 10 4.00 4.00 4.00 4.00 5025 GL 55 5.50 5.50 5.50 5.50 5.50 5501 GL 6.60 5.50 5.50 5.50 5.50 5501 GL 6.60 5.50 5.50 5.50 5.50 5.50 5501 GL 7.50 5.50 5.50 5.50 5.50 5.50 5501 GL 8.00 5.00 5.50 5.50 5.50 5501 GL 7.50 5.50 5.50 5.50 5.50 5.50 5501 GL 8.00 5.00 5.50 5.50 5.50 5501 GL 8.00 5.00 5.50 5.50 5.50 5501 GL 8.00 5.00 5.50 5.50 5.50 5501 GL 8.00 5.50 5.50 5.50 5.50 5501 GL 9.00 5.50 5.50 5.50 5501 GL 9.00 5.50 5.50 5.50 5501 GL 9.00 5.50 5.50 5.50						
4720         LB         1200         3.00         3.00         3.00           4721         GL         3054         12.00         .10         7.40           4725         GL         3054         12.00         .10         7.40           4725         GL         253         5.00         3.84         4.28           4731         GL         55345         5.50         1.95         3.94           4736         GL         210         3.23         3.23         3.23           4736         GL         210         3.23         3.23         3.23           4738         GL         25         6.07         6.07         6.07           4740         GL         7         9.47         9.47         9.47           4740         GL         15595         4.00         1.43         3.85           4818         GL         17         4.00         1.00         3.14           5000         GL         17         4.00         1.00         3.14           5001         GL         17         4.00         1.00         3.00           5001         GL         16         8.00         8.00						
4721         LB         1591         2.57         .50         .91           4723         GL         3054         12.00         .10         7.40           4723         GL         5         16.00         16.00         16.00           4732         GL         253         5.00         3.84         4.28           4732         GL         1032         5.50         .75         2.62           4738         GL         25         6.07         6.07         6.07         6.07           4740         GL         7         9.47         9.47         9.47         9.47           4742         GL         15595         4.00         1.43         3.85           4818         GL         17         4.70         3.10         3.90           5000         EA         17         4.70         3.10         3.90           5001         GL         17         4.00         1.00         3.14           5001         GL         17         4.00         1.00         3.14           5001         GL         17         4.00         1.00         3.14           5001         GL         17 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
4722         GL         3054         12.00         .10         7.40           4725         GL         253         5.00         3.84         4.28           4731         GL         5345         5.50         1.95         3.96           4736         GL         210         3.23         3.23         3.23           4736         GL         210         3.23         3.23         3.23           4738         GL         25         6.07         6.07         9.47         9.47           4740         GL         7         9.47         9.47         9.47         9.47           4818         GL         15595         4.00         1.43         3.85           4818         GL         17         4.70         3.10         3.90           5000         GL         17         4.00         1.00         3.14           5001         GL         17         <						
4723         GL         5         16.00         16.00         16.00           4731         GL         5345         5.50         1.95         3.96           4732         GL         1032         5.50         .75         2.62           4738         GL         210         3.23         3.23         3.23           4738         GL         25         6.07         6.07         6.07           4740         GL         7         9.47         9.47         9.47           4742         GL         15595         4.00         1.43         3.85           4818         GL         1         1.50         .50         .50           5000         EA         17         4.70         3.10         3.90           5000         GL         17         4.00         1.00         3.14           5000         GL         17         4.00         1.00         3.14           5000         GL         17         4.00         1.00         3.10           5001         GL         1         2.00         2.00         2.00           5001         GL         1         1         2.00         2.00 </td <td></td> <td><math>{ t GL}</math></td> <td></td> <td>12.00</td> <td>.10</td> <td>7.40</td>		${ t GL}$		12.00	.10	7.40
4731 GL 5345 5.50 1.95 3.96 4736 GL 1032 5.50 .75 2.62 4736 GL 210 3.23 3.23 3.23 4738 GL 25 6.07 6.07 6.07 4740 GL 77 9.47 9.47 9.47 4742 GL 15595 4.00 1.43 3.85 4818 GL 1 1 .50 .50 .50 5000 EA 17 4.70 3.10 3.90 5001 GL 17 4.00 1.00 3.14 5001 GL 1 2 2 2.40 2.40 2.40 5003 LB 6 8.00 8.00 8.00 5002 EA 2 2 2.40 2.40 2.40 2.40 5003 LB 5 .60 .60 .60 .60 5005 LB 55 2.00 2.00 2.00 5005 LB 6 3.50 3.50 5007 GL 3532 8.00 1.50 5.33 5010 GL 1057 6.00 2.00 3.31 5011 GL 900 8.00 1.50 3.35 5011 GL 900 8.00 4.00 4.00 5025 GL 1057 6.00 2.00 3.31 5011 GL 900 8.00 1.50 3.38 5012 GL 1057 6.00 2.00 3.31 5011 GL 900 8.00 4.00 4.00 4.00 5025 GL 55 2.25 2.25 2.25 5500 LB 260953 2.00 0.00 3.28 5012 GL 10 4.00 4.00 4.00 5501 LB 515 .52 .52 .52 5501 LB 550 2.25 2.25 2.25 5500 LB 3560 .24 2.25 2.25 2.25 5501 LB 3560 .24 2.25 2.25 2.25 5501 LB 3560 .24 2.25 2.25 2.25 5502 LB 3560 .24 2.2 2.25 2.25 5504 LB 90 3.50 3.50 3.50 5507 GL 338 3.00 3.00 3.00 5501 LB 3600 3.00 3.00 5501 LB 3600 3.00 3.00 3.00 3.00 3.00 5501 LB 3600 3.00 3.00 3.00 3.00 3.00 3.00 3.00	4723	${f GL}$	5			
4732         GL         1032         5.50         .75         2.62           4738         GL         210         3.23         3.23         3.23           4740         GL         7         9.47         9.47         9.47           4742         GL         15595         4.00         1.43         3.85           4818         GL         1         .50         .50         .50           5000         EA         17         4.70         3.10         3.90           5000         GL         17         4.00         1.00         3.14           5001         GL         1         2.00         2.00         2.00           5001         GL         1         2.00         2.00         2.00           5001         LB         6         8.00         8.00         8.00           5001         LB         6         8.00         8.00         8.00           5005         GL         4416         9.47         1.0         1.68           5005         GL         4416         9.47         1.0         1.68           5005         GL         3532         8.00         1.50         5.33 </td <td>4725</td> <td>GL</td> <td></td> <td>5.00</td> <td></td> <td></td>	4725	GL		5.00		
4736         GL         210         3.23         3.23         3.23           4738         GL         25         6.07         6.07         6.07           4740         GL         7         9.47         9.47         9.47           4742         GL         15595         4.00         1.43         3.85           5000         EA         17         4.70         3.10         3.90           5000         GL         17         4.00         1.00         3.14           5001         GL         1         2.00         2.00         2.00           5001         LB         6         8.00         8.00         8.00           5002         EA         2         2.40         2.40         2.40           5003         LB         5         .60         .60         .60           5005         LB         55         2.00         2.00         2.00           5005         LB         55         2.00         2.00         2.00           5006         LB         5332         8.00         1.50         5.33           5010         GL         3532         8.00         1.50         5.33 </td <td></td> <td>GL</td> <td></td> <td></td> <td></td> <td></td>		GL				
4738         GL         25         6.07         6.07         9.40         3.5						
4740         GL         7         9.47         9.47         9.47           4742         GL         15595         4.00         1.43         3.85           4818         GL         1         .50         .50         .50           5000         EA         17         4.70         3.10         3.90           5001         GL         1         2.00         2.00         2.00           5001         LB         6         8.00         8.00         8.00           5002         EA         2         2.40         2.40         2.40           5003         LB         5         .60         .60         .60           5005         GL         4416         9.47         .10         1.68           5005         LB         55         2.00         2.00         2.00           5006         LB         6         3.50         3.50         3.50           5007         GL         3532         8.00         1.50         5.33           5010         GL         1057         6.00         2.00         3.31           5011         GL         900         8.00         .50         3.28						
4742 GL 15595 4.00 1.43 3.85 4818 GL 1 1 .50 .50 .50 .50 5000 EA 17 4.70 3.10 3.90 5000 GL 17 4.00 1.00 3.14 5001 GL 1 2.00 2.00 2.00 5001 LB 6 8.00 8.00 8.00 5002 EA 2 2.40 2.40 2.40 5003 LB 5 .60 .60 .60 .60 5005 GL 4116 9.47 .10 1.68 5005 GL 4116 9.47 .10 1.68 5005 GL 3532 8.00 1.50 5.33 5010 GL 3532 8.00 1.50 5.33 5011 GL 900 8.00 .50 3.50 5007 GL 3532 8.00 1.50 5.33 5011 GL 900 8.00 .50 3.28 5012 GL 10 4.00 4.00 4.00 4.00 5025 GL 5 5 2.25 2.25 2.25 5500 LB 260953 2.00 0.00 .56 5501 LB 515 .52 .52 5.52 5500 LB 3550 3.00 3.00 3.00 5501 GL 5 5 3.00 3.00 3.00 5501 LB 6 6 3.50 3.00 3.00 3.00 5501 LB 8 515 .52 .52 5.25 5500 LB 8 60953 2.00 0.00 .56 5501 LB 8 515 .52 .52 5.25 5500 LB 8 60953 2.00 0.00 3.56 5501 LB 8 515 .52 .52 .52 5502 LB 3560 .24 .24 .24 .24 5503 LB 90 .65 .10 .37 5507 GL 250 1.50 1.50 1.50 1.50 5504 LB 90 .65 .10 .37 5507 GL 250 1.50 1.50 1.50 1.50 5600 GL 80 5.00 1.00 3.75 5600 GL 80 5.00 1.00 1.00 6.95 5601 LB 181362 1.57 1.00 7.70 5602 GL 18 181362 1.57 1.00 7.70 5603 EA 12 16.33 3.15 15.13 5600 GL 26 28 393 20.00 1.00 1.00 1.00 5600 EA 393 20.00 1.00 1.00 7.09 5600 GL 26 26 26 26 26 26 26 26 26 26 26 26 26						
## ## ## ## ## ## ## ## ## ## ## ## ##						
5000         EA         17         4.70         3.10         3.90           5001         GL         17         4.00         1.00         3.14           5001         GL         1         2.00         2.00         2.00           5001         LB         6         8.00         8.00         8.00           5003         LB         5         .60         .60         .60           5005         GL         4416         9.47         .10         1.68           5005         LB         55         2.00         2.00         2.00           5006         LB         6         3.50         3.50         3.50           5007         GL         3532         8.00         1.50         5.33           5010         GL         1057         6.00         2.00         3.21           5011         GL         900         8.00         .50         3.21           5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25           5501         GB         51         3.00         3.00         3.00 <td></td> <td></td> <td></td> <td></td> <td>1.43</td> <td></td>					1.43	
5000         GL         17         4.00         1.00         3.14           5001         GL         1         2.00         2.00         2.00           5001         LB         6         8.00         8.00         8.00           5002         EA         2         2.40         2.40         2.40           5005         GL         4416         9.47         .10         1.68           5005         LB         55         2.00         2.00         2.00           5006         LB         6         3.50         3.50         3.50           5007         GL         3532         8.00         1.50         5.33           5010         GL         1057         6.00         2.00         3.31           5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25           5501         GL         53         3.00         3.00         3.00           5501         GL         55         3.20         3.00         3.00<						
5001         GL         1         2.00         2.00         8.00         8.00           5001         LB         6         8.00         8.00         8.00           5002         EA         2         2.40         2.40         2.40           5003         LB         5         .60         .60         .60           5005         GL         4416         9.47         .10         1.68           5005         LB         55         2.00         2.00         2.00           5006         LB         6         3.50         3.50         3.50           5007         GL         3532         8.00         1.50         5.33           5010         GL         1057         6.00         2.00         3.31           5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25         2.25           5500         LB         260953         2.00         0.00         .56         550         2.25         2.25         2.25						
5001         LB         6         8.00         8.00         8.00           5002         EA         2         2.40         2.40         2.40           5003         LB         5         .60         .60         .60           5005         GL         4416         9.47         .10         1.68           5005         LB         55         2.00         2.00         2.00           5006         LB         6         3.50         3.50         3.50           5007         GL         3532         8.00         1.50         5.33           5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25         5.25           5500         LB         260953         2.00         0.00         .56         55           5501         LB         515         .52         .52         .52         .52           5502         DR         11         600.00         115.68         236.76           5502         DR						
5002         EA         2         2.40         2.40         2.40           5003         LB         5         .60         .60         .60           5005         GL         4416         9.47         .10         1.68           5005         LB         55         2.00         2.00         2.00           5006         LB         6         3.50         3.50         3.50           5007         GL         3532         8.00         1.50         5.33           5010         GL         1057         6.00         2.00         3.31           5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25         2.25           5500         LB         260953         2.00         0.00         .56         5501         LB         260953         2.00         0.00         .56           5501         LB         515         .52         .52         .52         .52         .52         .52         .52         .52         .52 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
5003         LB         5         .60         .60         .60           5005         GL         4416         9.47         .10         1.68           5005         LB         55         2.00         2.00         2.00           5006         LB         6         3.50         3.50         3.50           5007         GL         3532         8.00         1.50         5.33           5010         GL         1057         6.00         2.00         3.31           5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25           5500         LB         260953         2.00         0.00         .56           5501         GL         5         3.00         3.00         3.00           5501         LB         515         .52         .52         .52           5502         DR         11         600.00         115.68         236.76           5502         LB         3560         .24         .24						
5005         GL         4416         9.47         .10         1.68           5005         LB         55         2.00         2.00         2.00           5007         GL         3532         8.00         1.50         5.33           5010         GL         1057         6.00         2.00         3.31           5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25         2.25           5500         LB         260953         2.00         0.00         .56           5501         GL         5         3.00         3.00         3.00           5501         LB         515         .52         .52         .52         .52           5502         LB         3560         .24         .24         .24           5503         LB         380         1.00         1.50         1.50           5504         LB         90         .65         .10         .37           5507         GL         250         1.50						
5005         LB         55         2.00         2.00         2.00           5006         LB         6         3.50         3.50         3.50           5007         GL         3532         8.00         1.50         5.33           5010         GL         1057         6.00         2.00         3.31           5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25           5500         LB         260953         2.00         0.00         .56           5501         GL         5         3.00         3.00         3.00           5501         LB         515         .52         .52         .52         .52           5502         DR         11         600.00         115.68         236.76         .52         .52         .52         .52         .52         .52         .52         .52         .52         .52         .52         .52         .52         .52         .52         .52         .52         .52         .52						
5006         LB         6         3.50         3.50         3.50           5007         GL         3532         8.00         1.50         5.33           5010         GL         1057         6.00         2.00         3.31           5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25         2.25           5500         LB         260953         2.00         0.00         .56         55           5501         GL         5         3.00         3.00         3.00         3.00           5501         LB         515         .52         .52         .52         .52           5502         DR         11         600.00         115.68         236.76         5502         LB         3560         .24         .24         .24         .24         .24         .24         .24         .24         .24         .24         .24         .24         .24         .25         .55         .55         .52         .52         .55						
5007         GL         3532         8.00         1.50         5.33           5010         GL         1057         6.00         2.00         3.31           5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25           5500         LB         260953         2.00         0.00         .56           5501         GL         5         3.00         3.00         3.00           5501         LB         515         .52         .52         .52           5502         DR         11         600.00         115.68         236.76           5502         LB         3560         .24         .24         .24           5503         LB         380         1.00         1.00         1.00           5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         <			_			
5010         GL         1057         6.00         2.00         3.31           5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25           5500         LB         260953         2.00         0.00         .56           5501         GL         5         3.00         3.00         3.00           5501         LB         515         .52         .52         .52           5502         DR         11         600.00         115.68         236.76           5502         LB         3560         .24         .24         .24           5503         LB         380         1.00         1.00         1.00           5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         25.00         <						
5011         GL         900         8.00         .50         3.28           5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25           5500         LB         260953         2.00         0.00         .56           5501         GL         5         3.00         3.00         3.00           5501         LB         515         .52         .52         .52           5502         DR         11         600.00         115.68         236.76           5502         LB         3560         .24         .24         .24           5503         LB         380         1.00         1.00         1.00           5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         GL         80         5.00         25.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
5012         GL         10         4.00         4.00         4.00           5025         GL         55         2.25         2.25         2.25           5500         LB         260953         2.00         0.00         .56           5501         GL         5         3.00         3.00         3.00           5501         LB         515         .52         .52         .52           5502         DR         11         600.00         115.68         236.76           5502         LB         3560         .24         .24         .24           5503         LB         380         1.00         1.00         1.00           5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00           5601         EA         6         16.33         4.74         <						
5500         LB         260953         2.00         0.00         .56           5501         GL         5         3.00         3.00         3.00           5501         LB         515         .52         .52         .52           5502         DR         11         600.00         115.68         236.76           5502         LB         3560         .24         .24         .24           5503         LB         380         1.00         1.00         1.00           5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40         40           5601         LB         276         12.19         .90         2.55         5602         EA         400         16.33		GL		4.00	4.00	
5501         GL         5         3.00         3.00         3.00           5501         LB         515         .52         .52         .52           5502         DR         11         600.00         115.68         236.76           5502         LB         3560         .24         .24         .24           5503         LB         380         1.00         1.00         1.00           5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40         20         2.55           5602         EA         400         16.33         1.00         6.95         3.15         3.15         3.15         3.15         3.15         3.15         3.15         3.15         3.15         3.15 </td <td></td> <td>GL</td> <td></td> <td></td> <td></td> <td></td>		GL				
5501         LB         515         .52         .52         .52           5502         DR         11         600.00         115.68         236.76           5502         LB         3560         .24         .24         .24           5503         LB         380         1.00         1.00         1.00           5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40         14.40           5601         EA         400         16.33         1.00         6.95         5602         EA         400         16.33         1.00         6.95         5602         EA         12.19         .90         2.55         5602         EA         12.19         .90         2.55         5602         E						
5502         DR         11         600.00         115.68         236.76           5502         LB         3560         .24         .24         .24           5503         LB         380         1.00         1.00         1.00           5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40           5601         LB         276         12.19         .90         2.55           5602         GL         1         3.15         3.15         3.15           5603         EA         12         16.33         3.15         15.13           5603         EA         12         16.33         3.15         15.13           5603         EA         12         16.33         3.15						
5502         LB         3560         .24         .24         .24           5503         LB         380         1.00         1.00         1.00           5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40           5601         LB         276         12.19         .90         2.55           5602         EA         400         16.33         1.00         6.95           5602         GL         1         3.15         3.15         3.15           5603         EA         12         16.33         3.15         15.13           5603         EA         12         16.33         3.15         15.13           5603         EA         12         16.33         3.15						
5503         LB         380         1.00         1.00         1.00           5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40           5601         LB         276         12.19         .90         2.55           5602         EA         400         16.33         1.00         6.95           5602         GL         1         3.15         3.15         3.15           5603         EA         12         16.33         3.15         15.13           5603         EA         12         16.33         3.15         15.13           5603         EA         12         16.33         3.15         15.13           5603         EA         12         1.57         .10					115.68	
5504         LB         90         .65         .10         .37           5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40           5601         LB         276         12.19         .90         2.55           5602         EA         400         16.33         1.00         6.95           5602         GL         1         3.15         3.15         3.15           5603         EA         12         16.33         3.15         15.13           5603         EA         12         16.33         3.15         15.13           5603         EA         12         16.33         3.15         15.13           5604         LB         181362         1.57         .10         .77           5605         GL         484         9.95         .05						
5507         GL         250         1.50         1.50         1.50           5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40           5601         LB         276         12.19         .90         2.55           5602         EA         400         16.33         1.00         6.95           5602         GL         1         3.15         3.15         3.15           5603         EA         12         16.33         3.15         15.13           5603         GL         18.00         18.00         18.00         18.00           5604         LB         181362         1.57         .						
5600         EA         8         16.33         12.29         12.87           5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40           5601         LB         276         12.19         .90         2.55           5602         EA         400         16.33         1.00         6.95           5602         GL         1         3.15         3.15         3.15           5603         EA         12         16.33         3.15         15.13           5603         GL         18.00         18.00         18.00         18.00           5604         LB         181362         1.57					.10	
5600         GL         80         5.00         1.00         3.75           5600         PT         45         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40           5601         LB         276         12.19         .90         2.55           5602         EA         400         16.33         1.00         6.95           5602         GL         1         3.15         3.15         3.15           5603         EA         12         16.33         3.15         15.13           5603         OZ         8         18.00         18.00         18.00           5604         LB         181362         1.57         .10         .77           5605         GL         484         9.95         .05         3.93           5607         GL         5         1.00         .40         .70           5612         GL         3         4.00         4.00         4.00           5619         GL         2         1.00         1.00         7.09           6000         EA         393         20.00         50 <td< td=""><td></td><td></td><td></td><td></td><td>12 20</td><td></td></td<>					12 20	
5600         PT         45         25.00         25.00         25.00           5601         EA         6         16.33         4.74         14.40           5601         LB         276         12.19         .90         2.55           5602         EA         400         16.33         1.00         6.95           5602         GL         1         3.15         3.15         3.15           5603         EA         12         16.33         3.15         15.13           5603         OZ         8         18.00         18.00         18.00           5604         LB         181362         1.57         .10         .77           5605         GL         484         9.95         .05         3.93           5607         GL         5         1.00         .40         .70           5612         GL         3         4.00         4.00         4.00           5619         GL         2         1.00         1.00         7.09           6000         EA         393         20.00         1.00         7.09           6000         LB         12         .35         .35 <td< td=""><td></td><td></td><td></td><td></td><td>1 00</td><td></td></td<>					1 00	
5601       EA       6       16.33       4.74       14.40         5601       LB       276       12.19       .90       2.55         5602       EA       400       16.33       1.00       6.95         5602       GL       1       3.15       3.15       3.15         5603       EA       12       16.33       3.15       15.13         5603       OZ       8       18.00       18.00       18.00         5604       LB       181362       1.57       .10       .77         5605       GL       484       9.95       .05       3.93         5607       GL       5       1.00       .40       .70         5612       GL       3       4.00       4.00       4.00         5619       GL       2       1.00       1.00       1.00         6000       EA       393       20.00       1.00       7.09         6000       GL       263       5.00       .50       .73         6000       LB       12       .35       .35       .35         6000       QT       1       17.00       17.00       17.00      <				25.00		
5601         LB         276         12.19         .90         2.55           5602         EA         400         16.33         1.00         6.95           5602         GL         1         3.15         3.15         3.15           5603         EA         12         16.33         3.15         15.13           5603         OZ         8         18.00         18.00         18.00           5604         LB         181362         1.57         .10         .77           5605         GL         484         9.95         .05         3.93           5607         GL         5         1.00         .40         .70           5612         GL         3         4.00         4.00         4.00           5619         GL         2         1.00         1.00         1.00           6000         EA         393         20.00         1.00         7.09           6000         GL         263         5.00         .50         .73           6000         LB         12         .35         .35         .35           6000         QT         1         17.00         17.00         17.0				16.33		
5602       EA       400       16.33       1.00       6.95         5602       GL       1       3.15       3.15       3.15         5603       EA       12       16.33       3.15       15.13         5603       OZ       8       18.00       18.00       18.00         5604       LB       181362       1.57       .10       .77         5605       GL       484       9.95       .05       3.93         5607       GL       5       1.00       .40       .70         5612       GL       3       4.00       4.00       4.00         5619       GL       2       1.00       1.00       1.00         6000       EA       393       20.00       1.00       7.09         6000       GL       263       5.00       .50       .73         6000       LB       12       .35       .35       .35         6000       QT       1       17.00       17.00       17.00         6001       EA       20       20.00       2.67       11.37						
5602         GL         1         3.15         3.15           5603         EA         12         16.33         3.15         15.13           5603         OZ         8         18.00         18.00         18.00           5604         LB         181362         1.57         .10         .77           5605         GL         484         9.95         .05         3.93           5607         GL         5         1.00         .40         .70           5612         GL         3         4.00         4.00         4.00           5619         GL         2         1.00         1.00         1.00           6000         EA         393         20.00         1.00         7.09           6000         GL         263         5.00         .50         .73           6000         LB         12         .35         .35         .35           6000         QT         1         17.00         17.00         17.00           6001         EA         20         20.00         2.67         11.37						
5603       EA       12       16.33       3.15       15.13         5603       OZ       8       18.00       18.00       18.00         5604       LB       181362       1.57       .10       .77         5605       GL       484       9.95       .05       3.93         5607       GL       5       1.00       .40       .70         5612       GL       3       4.00       4.00       4.00         5619       GL       2       1.00       1.00       1.00         6000       EA       393       20.00       1.00       7.09         6000       GL       263       5.00       .50       .73         6000       LB       12       .35       .35       .35         6000       QT       1       17.00       17.00       17.00         6001       EA       20       20.00       2.67       11.37	5602	GL	1	3.15	3.15	
5604         LB         181362         1.57         .10         .77           5605         GL         484         9.95         .05         3.93           5607         GL         5         1.00         .40         .70           5612         GL         3         4.00         4.00         4.00           5619         GL         2         1.00         1.00         1.00           6000         EA         393         20.00         1.00         7.09           6000         GL         263         5.00         .50         .73           6000         LB         12         .35         .35         .35           6000         QT         1         17.00         17.00         17.00           6001         EA         20         20.00         2.67         11.37	5603		12			
5605         GL         484         9.95         .05         3.93           5607         GL         5         1.00         .40         .70           5612         GL         3         4.00         4.00         4.00           5619         GL         2         1.00         1.00         1.00           6000         EA         393         20.00         1.00         7.09           6000         GL         263         5.00         .50         .73           6000         LB         12         .35         .35         .35           6000         QT         1         17.00         17.00         17.00           6001         EA         20         20.00         2.67         11.37				18.00		18.00
5607         GL         5         1.00         .40         .70           5612         GL         3         4.00         4.00         4.00           5619         GL         2         1.00         1.00         1.00           6000         EA         393         20.00         1.00         7.09           6000         GL         263         5.00         .50         .73           6000         LB         12         .35         .35         .35           6000         QT         1         17.00         17.00         17.00           6001         EA         20         20.00         2.67         11.37						
5612       GL       3       4.00       4.00       4.00         5619       GL       2       1.00       1.00       1.00         6000       EA       393       20.00       1.00       7.09         6000       GL       263       5.00       .50       .73         6000       LB       12       .35       .35       .35         6000       QT       1       17.00       17.00       17.00         6001       EA       20       20.00       2.67       11.37			484			
6000       EA       393       20.00       1.00       7.09         6000       GL       263       5.00       .50       .73         6000       LB       12       .35       .35       .35         6000       QT       1       17.00       17.00       17.00         6001       EA       20       20.00       2.67       11.37			5			
6000       EA       393       20.00       1.00       7.09         6000       GL       263       5.00       .50       .73         6000       LB       12       .35       .35       .35         6000       QT       1       17.00       17.00       17.00         6001       EA       20       20.00       2.67       11.37			3			
6000       GL       263       5.00       .50       .73         6000       LB       12       .35       .35       .35         6000       QT       1       17.00       17.00       17.00       17.00         6001       EA       20       20.00       2.67       11.37			202			
6000     LB     12     .35     .35       6000     QT     1     17.00     17.00     17.00       6001     EA     20     20.00     2.67     11.37						
6000 QT 1 17.00 17.00 17.00 6001 EA 20 20.00 2.67 11.37						
6001 EA 20 20.00 2.67 11.37					17 00	17 00
			20			
			7			1.67

APPENDIX F - continued

CLIN   Unit   Quantity   Maximum   Minimum   Average					Unit Cost, \$	
6002 EA 114 16.33 1.81 4.98 6003 GL 55 3.00 3.00 3.00 6004 GL 1498 3.55 1.10 3.20 6004 LB 4608 7.19 1.8 1.88 6005 GL 3458 16.00 .05 3.11 6005 GL 3458 16.00 .05 3.11 6005 GL 3458 16.00 .05 3.11 6005 LB 10200 .95 .95 .95 6006 LB 68 5.00 5.00 5.00 6007 LB 48819 2.00 0.00 .00 6011 GL 55 3.00 3.00 3.00 6011 GL 55 3.00 3.00 3.00 6011 GL 55 3.00 3.00 3.00 6011 GL 3424 20.00 1.00 2.89 6012 GL 3424 20.00 1.00 2.89 6013 GL 249 3.00 1.0 2.89 6014 LB 2610 2.00 1.0 1.5 6016 GL 1995 3.00 3.00 3.00 6016 GL 1995 3.00 3.00 3.00 6017 LB 4460 2.00 1.0 1.5 6020 LB 31976 1.50 1.0 2.65 6021 LB 31976 1.50 1.0 2.86 6022 LB 55 3.00 3.00 3.00 6025 GL 165 .05 .05 .05 6026 GL 165 .05 .05 .05 6027 GL 165 .05 .05 .05 6028 GL 165 .05 .05 .05 6029 GL 1095 4.50 .50 .50 .05 6026 GL 18 525 2.00 .50 .05 6026 GL 18 525 2.00 .50 .268 6026 LB 525 2.00 .50 .10 2.78 6049 LB 63131 2.00 .10 1.0 6055 GL 23 404 2.31 .50 .50 6055 GL 1758 8.29 .10 .10 1.00 6055 GL 23 404 2.31 .50 .50 .05 6055 GL 1758 8.29 .10 .10 .10 6056 GL 23 404 2.31 .50 .50 .05 6057 GL 1758 8.29 .10 .10 .10 6058 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 .10 .10 6055 GL 1758 8.29 .10 .268 6066 GL 275 2.00 2.00 2.00 6070 GL 175 3.00 3.00 3.00 6055 GL 1758 8.29 .10 .278 6056 GL 275 2.00 2.00 2.00 60670 GL 375 2.00 2.00 2.00 6070 LB 199 60 60 60 60 6080 LB 199 60 60 60 60 6080 LB 199 60 66 66 66 66 6060 GR 2.775 2.00 2.00 2.00 2.00 6070 LB 199 60 66 66 66 66 6070 LB 27747 1.00 3.66 66 66 6071 LB 27747 1.00 3.66 66 66 6072 LB 27747 1.00 3.66 66 66 6070 LB 27747 1.00 3.66 66 66 6070 LB 27747 1.00 3.66 66 66 66 6071 LB 27747 1.00 3.66 66 66 66 6072 LB 275 2.00 3.20 3.23 3.22 6003 LB 173 3.42 3.42 3.42 3.42 6000 LB 1910 666 666 666 666 666 6070 LB 2775 2.00 3.20 3.23 3.22 6000 LB 1311 6.33 6.33 6.33 6034 635	CLIN	Unit	Quantity	Maximum		Average
6002 EA 114 16.33 1.81 4.98 6003 GL 55 3.00 3.00 3.00 6004 GL 1498 3.55 1.10 3.20 6004 LB 4608 7.19 1.8 1.88 6005 GL 3458 16.00 .05 3.11 6005 GL 3458 16.00 .05 3.11 6005 GL 3458 16.00 .05 3.11 6005 LB 10200 .95 .95 .95 6006 LB 68 5.00 5.00 5.00 6007 LB 48819 2.00 0.00 .00 6011 GL 55 3.00 3.00 3.00 6011 GL 55 3.00 3.00 3.00 6011 GL 55 3.00 3.00 3.00 6011 GL 3424 20.00 1.00 2.89 6012 GL 3424 20.00 1.00 2.89 6013 GL 249 3.00 1.0 2.89 6014 LB 2610 2.00 1.0 1.5 6016 GL 1995 3.00 3.00 3.00 6016 GL 1995 3.00 3.00 3.00 6017 LB 4460 2.00 1.0 1.5 6020 LB 31976 1.50 1.0 2.65 6021 LB 31976 1.50 1.0 2.86 6022 LB 55 3.00 3.00 3.00 6025 GL 165 .05 .05 .05 6026 GL 165 .05 .05 .05 6027 GL 165 .05 .05 .05 6028 GL 165 .05 .05 .05 6029 GL 1095 4.50 .50 .50 .05 6026 GL 18 525 2.00 .50 .05 6026 GL 18 525 2.00 .50 .268 6026 LB 525 2.00 .50 .10 2.78 6049 LB 63131 2.00 .10 1.0 6055 GL 23 404 2.31 .50 .50 6055 GL 1758 8.29 .10 .10 1.00 6055 GL 23 404 2.31 .50 .50 .05 6055 GL 1758 8.29 .10 .10 .10 6056 GL 23 404 2.31 .50 .50 .05 6057 GL 1758 8.29 .10 .10 .10 6058 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 .10 .10 6055 GL 1758 8.29 .10 .268 6066 GL 275 2.00 2.00 2.00 6070 GL 175 3.00 3.00 3.00 6055 GL 1758 8.29 .10 .278 6056 GL 275 2.00 2.00 2.00 60670 GL 375 2.00 2.00 2.00 6070 LB 199 60 60 60 60 6080 LB 199 60 60 60 60 6080 LB 199 60 66 66 66 66 6060 GR 2.775 2.00 2.00 2.00 2.00 6070 LB 199 60 66 66 66 66 6070 LB 27747 1.00 3.66 66 66 6071 LB 27747 1.00 3.66 66 66 6072 LB 27747 1.00 3.66 66 66 6070 LB 27747 1.00 3.66 66 66 6070 LB 27747 1.00 3.66 66 66 66 6071 LB 27747 1.00 3.66 66 66 66 6072 LB 275 2.00 3.20 3.23 3.22 6003 LB 173 3.42 3.42 3.42 3.42 6000 LB 1910 666 666 666 666 666 6070 LB 2775 2.00 3.20 3.23 3.22 6000 LB 1311 6.33 6.33 6.33 6034 635	6001	7 10	162	98	50	56
6003         EA         113         20.00         .72         4.92           6004         GL         55         3.00         3.00         3.00           6004         GL         1498         3.55         1.10         3.20           6004         LB         4608         7.19         .18         1.88           6005         LB         10200         .95         .95         .95           6006         LB         68         5.00         5.00         5.00           6007         LB         48819         2.00         0.00         .95           6011         0         0.00         0.00         .93           6011         GL         55         3.00         3.00         3.00           6011         GL         55         3.00         3.00         3.00           6011         LB         47917         12.00         0.00         1.19           6012         GL         3424         20.00         1.0         2.20           6014         LB         2610         2.00         1.0         1.25           6013         GL         249         3.00         3.0         3.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
6003         GL         55         3.00         3.00         3.00           6004         GL         1498         3.55         1.10         3.20           6004         LB         4608         7.19         .18         1.88           6005         GL         3458         16.00         .05         3.11           6005         LB         10200         .95         .95         .95           6006         LB         68         5.00         5.00         5.00           6007         LB         48819         2.00         0.00         0.00         .93           6011         0         0.00         0.00         0.00         .00         .00           6011         GL         55         3.00         3.00         3.00         3.00           6011         LB         4917         12.00         0.00         1.00         2.89           6013         GL         3424         20.00         1.00         2.89           6012         GL         3424         20.00         1.0         2.20           6015         GL         234         5.50         1.0         2.55           6015						
6004         GL         1498         3.55         1.10         3.20           6005         GL         3458         7.19         1.8         1.88           6005         GL         3458         16.00         .05         3.11           6005         LB         10200         .95         .95         .95           6006         LB         688         5.00         5.00         5.00           6007         LB         48819         2.00         0.00         .05         1.32           6011         0         0.00         0.00         0.00         0.00         1.03           6011         GL         55         3.00         3.00         3.00         3.00           6011         LB         47917         12.00         0.00         1.01         2.29           6011         LB         47917         12.00         0.00         1.10         2.29           6012         GL         3424         20.00         1.00         2.89           6013         GL         249         3.00         1.0         2.65           6015         GL         934         5.50         1.0         2.65						
COU   LB   COU   COU						
6005         GL         3458         16.00         .05         3.11           6006         LB         10200         .95         .95         .95           6006         LB         68         5.00         5.00         5.00           6007         LB         48819         2.00         0.00         .00         .90           6011         0         0.00         0.00         0.00         3.00         3.00           6011         GL         55         3.00         3.00         3.00         3.00           6011         LB         47917         12.00         0.00         1.00         2.89           6013         GL         249         3.00         1.00         2.89           6013         GL         249         3.00         1.0         1.22           6014         LB         2610         2.00         1.0         1.25           6015         GL         934         5.50         1.0         1.25           6016         GL         1995         3.00         3.00         3.00           6016         GL         1995         3.00         3.00         3.00           6021						
6005         LB         10200         .95         .95         .95           6006         LB         68         5.00         5.00         5.00           6007         LB         48819         2.00         0.00         .93           6001         GL         170         3.87         .05         1.32           6011         GL         55         3.00         3.00         3.00           6011         LB         47917         12.00         0.00         0.00         1.19           6012         GL         3424         20.00         1.00         2.29           6013         GL         249         3.00         .10         1.59           6014         LB         2610         2.00         .10         1.59           6015         GL         1934         5.50         .10         2.65           6016         GL         1995         3.00         3.00         3.00           6015         GL         195         3.00         3.00         3.00           6020         LB         31976         1.50         .10         2.52           6016         GL         1995         4.50						
6006         LB         68         5.00         5.00         5.00           6007         LB         48819         2.00         0.00         .93           6011         0         0.00         0.00         0.00           6011         GL         55         3.00         3.00         3.00           6011         LB         47917         12.00         0.00         1.19           6012         GL         3424         20.00         1.00         2.89           6013         GL         249         3.00         .10         2.20           6014         LB         2610         2.00         .10         1.25           6015         GL         1.934         5.50         .10         2.65           6016         GL         1.995         3.00         3.00         3.00         3.00           6020         LB         31976         1.50         .10         .22         60           6021         LB         4460         .40         .28         .36         60         3.00         3.00         3.00         3.00         3.00         60         2.00         5.0         1.5         3.05         3.05 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
6007         LB         48819         2.00         0.00         .93           6009         GL         170         3.87         .05         1.32           6011         GL         55         3.00         3.00         3.00           6011         LB         45917         12.00         0.00         1.10         2.89           6012         GL         3424         20.00         1.00         2.89           6013         GL         249         3.00         .10         2.20           6014         LB         2610         2.00         .10         1.59           6015         GL         1934         5.50         .10         2.65           6015         GL         1935         3.00         3.00         3.00         3.00           6016         GL         1995         3.00         3.00         3.00         3.00           6020         LB         31976         1.50         .10         .28         .36           6021         LB         31976         1.50         .10         .28         .36           6022         LB         50         .40         .40         .40         .40						
6009 GL 170 3.87 .05 1.32 6011 0 0.00 0.00 0.00 0.00 6011 GL 55 3.00 3.00 3.00 3.00 6011 LB 47917 12.00 0.00 1.00 2.89 6012 GL 3424 20.00 1.00 2.89 6013 GL 249 3.00 1.0 2.20 6014 LB 2610 2.00 1.0 1.59 6015 GL 934 5.50 1.0 2.65 6016 GL 1995 3.00 3.00 3.00 3.00 6021 LB 31976 1.55  .05 0.10 .52 6021 LB 4460 .40 28 3.6 6022 LB 31976 1.55 0.0 1.0 .52 6022 LB 50  .40 40 .40 4.0 6023 GL 165 0.55 0.5 0.5 0.5 6026 GL 165 0.5 0.5 0.5 0.5 6026 GL 165 0.5 0.5 0.5 0.5 6026 GL 165 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.						
6011         GL         55         3.00         3.00         3.00           6011         GL         55         3.00         3.00         3.00           6012         GL         3424         20.00         1.00         2.89           6013         GL         249         3.00         .10         2.20           6014         LB         2610         2.00         .10         1.59           6015         GL         934         5.50         .10         2.65           6016         GL         1995         3.00         3.00         3.00           6020         LB         31976         1.50         .10         .52           6021         LB         31976         1.50         .10         .52           6022         LB         50         .40         .40         .40         .40           6022         LB         50         .40						
6011 GL 55 3.00 3.00 3.00 6011 LB 47917 12.00 0.00 1.19 6012 GL 3424 20.00 1.00 2.89 6013 GL 249 3.00 .10 2.20 6013 GL 249 3.00 .10 1.00 2.20 6015 GL 934 5.50 .10 1.59 6015 GL 1995 3.00 3.00 3.00 3.00 6020 LB 31976 1.50 .10 .52 6021 LB 4460 .40 .28 .36 6022 LB 50 .40 .40 .40 .40 6023 GL 55 3.00 3.00 3.00 3.00 6023 GL 55 3.00 3.00 3.00 6025 GL 165 .05 .05 .05 6026 GL 1095 4.50 .50 .50 .268 6026 GL 1095 4.50 .50 .50 .268 6026 GL 1095 4.50 3.58 4.32 6049 LB 63131 2.00 .10 1.25 6048 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 1.10 6055 GL 4014 2.31 .50 1.10 1.10 6055 GL 4014 2.31 .50 1.10 1.10 6055 GL 4014 2.31 .50 1.73 6055 GL 1758 8.29 .10 2.78 6055 LB 25 .10 1.00 1.00 1.00 6068 GL 275 2.00 2.00 2.00 2.00 6062 GL 505 2.00 2.00 2.00 2.00 6055 GL 4014 2.31 .50 1.73 6055 GL 505 2.00 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 2.00 6069 LB 109 100 1.00 1.00 1.00 1.00 6080 LB 109 109 660 660 660 660 660 660 660 660 660 6		GL				
6011 LB 47917 12.00 0.00 1.100 2.89 6012 GL 3424 20.00 1.00 2.89 6013 GL 249 3.00 .10 2.20 6014 LB 2610 2.00 .10 1.59 6015 GL 934 5.50 .10 2.65 6016 GL 1995 3.00 3.00 3.00 6020 LB 31976 1.50 .10 .52 6021 LB 4460 .40 .28 .36 6022 LB 50 .40 .40 .40 .40 6023 GL 55 3.00 3.00 3.00 3.00 6020 LB 55 3.00 3.00 3.00 3.00 6020 LB 55 3.00 3.00 3.00 3.00 6021 LB 50 .40 .40 .40 .40 6022 LB 50 .40 .40 .40 .40 6023 GL 55 3.00 3.00 3.00 3.00 6024 GL 165 .05 .05 .05 .05 6026 GL 1095 4.50 .50 .50 .268 6026 GL 1095 4.50 .50 .50 1.25 6033 LB 426186 .50 .14 .44 6045 GL 7 4.00 4.00 4.00 4.00 6048 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 1.10 6050 LB 7 .60 .60 .60 6053 GL 4014 2.31 .50 1.73 6055 0 0.00 0.00 0.00 6055 GL 1758 8.29 .10 2.78 6055 GL 1758 8.29 .10 2.78 6056 LB 60 1.00 1.00 1.00 6062 GL 24 .55 .54 .54 6056 LB 60 1.00 1.00 1.00 6062 GL 275 2.00 2.00 2.00 6072 GL 175 3.00 1.60 2.00 6072 GL 175 3.00 1.60 2.53 6074 GL 35 4.00 4.00 4.00 6062 GL 275 2.00 2.00 2.00 6072 GL 175 3.00 1.00 1.00 1.00 6068 GL 275 2.00 2.00 2.00 6070 GL B 40 .69 .69 .69 6077 LB 10 1.00 1.00 1.00 6069 LB 199 .60 .60 .60 6089 LB 173 .05 .05 .05 6093 LB 27747 1.00 .36 .62 6093 LB 27747 1.00 .36 .62 6093 LB 27747 1.00 .36 .62 6099 LB 199 .60 .60 .60 6089 LB 173 .05 .05 .05 6107 LB 72 .150 .00 .97 6501 GL 15 .342 3.42 3.42 67000 LB 1900 .66 .66 .66 .66 67000 LB 1900 .66 .66 .66 .66 670000 LB 1900 .66 .66 .66 .66 670000 LB 1910 .60 .60 .60 .60 .60 .60 .60 .60 .60 .6						
6012         GL         3424         20.00         1.00         2.89           6013         GL         249         3.00         .10         2.20           6015         GL         934         5.50         .10         2.65           6016         GL         1995         3.00         3.00         3.00           6020         LB         31976         1.50         .10         .52           6021         LB         50         .40         .28         .36           6022         LB         50         .40         .40         .28         .36           6022         LB         50         .40         .40         .40         .40           6023         GL         .55         3.00         3.00         3.00         3.00           6026         GL         165         .05         .05         .05         .05           6026         GL         105         .50         .50         1.28         .60         .60         .60         .60         .60         .60         .60         .60         .60         .60         .60         .60         .60         .60         .60         .60         .60						3.00
6013 GL 249 3.00 .10 .2.20 6014 LB 2610 2.00 .10 1.59 6015 GL 934 5.50 .10 2.65 6016 GL 1995 3.00 3.00 3.00 6020 LB 31976 1.50 .10 .28 6021 LB 4460 .40 .28 .36 6022 LB 50 .40 .40 .40 .40 6023 GL 55 3.00 3.00 3.00 6025 GL 165 .05 .05 .05 6026 GL 1095 4.50 .50 .50 .26 6026 GL 1095 4.50 .50 .50 .26 6027 LB 525 2.00 .50 1.25 6033 LB 426186 .50 .14 .44 .44 6048 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 1.10 6053 GL 4014 2.31 .50 .10 1.10 6053 GL 4014 2.31 .50 .60 .60 6053 GL 4014 2.31 .50 .73 6055 GL 1758 8.29 .10 2.78 6055 LB 25 .10 .10 .10 .10 6055 LB 25 .10 .10 .10 .10 6056 LB 60 1.00 1.00 1.00 1.00 6066 GL 24 .555 .54 .54 6056 LB 60 1.00 1.00 1.00 1.00 6062 GL 24 .555 .54 .54 6056 LB 60 1.00 1.00 1.00 1.00 6062 GL 275 2.00 2.00 2.00 6072 GL 175 3.00 1.60 .60 .60 6068 GL 275 2.00 2.00 2.00 6072 GL 175 3.00 1.60 2.53 6074 GL 35 4.00 4.00 4.00 4.00 6089 LB 234316 52.00 2.00 2.00 6070 GL B 40 199 .60 .60 .60 .60 6089 LB 173 .05 .05 .05 6102 LB 173 .05 .05 .05 6102 LB 173 .05 .05 .05 6102 LB 175 3.42 .32 .32 .32 6093 LB 173 .05 .05 .05 6102 LB 27747 1.00 .36 .62 6093 LB 173 .05 .05 .05 6102 LB 199 .60 .60 .60 .60 6080 LB 199 .60 .60 .60 .60 6080 LB 199 .60 .60 .60 .60 6080 LB 175 .342 .342 .342 7000 LB 1900 .66 .66 .66 606 .66 7000A LB 8250 .32 .32 .32 7000A LB 1910 .66 .66 .66 7000A LB 8250 .32 .32 .32 7000A LB 6167 .53 .42 .46						
6014 LB 2610 2.00 .10 1.59 6015 GL 934 5.50 .10 2.65 6016 GL 1995 3.00 3.00 3.00 6020 LB 31976 1.50 .10 .52 6021 LB 4460 .40 .28 .36 6022 LB 50 .40 .40 .40 .40 6023 GL 55 3.00 3.00 3.00 6026 GL 1055 .05 .05 .05 6026 GL 1055 .05 .05 .05 6026 GL 1095 4.50 .50 .50 2.68 6026 LB 525 2.00 .50 1.25 6033 LB 426186 .50 .14 .44 6045 GL 7 4.00 4.00 4.00 4.00 6048 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 1.10 6050 LB 7 .60 .60 .60 6053 GL 4014 2.31 .50 1.73 6055 GL 4014 2.31 .50 1.73 6055 GL 1758 8.29 .10 2.78 6055 GL 1758 8.29 .10 .278 6056 GL 24 .55 .5 .54 .54 6056 LB 60 1.00 1.00 1.00 6055 GL 50 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 6072 GL 175 3.00 1.60 2.53 6074 GL 35 4.00 4.00 4.00 6076 LB 40 69 .69 .69 6077 LB 10 1.00 1.00 6076 LB 40 69 .69 .69 6077 LB 10 1.00 1.00 6076 LB 40 69 .69 .69 6077 LB 10 1.00 1.00 6076 LB 40 69 .69 .69 6077 LB 10 1.00 1.00 6076 LB 40 69 .69 .69 6077 LB 10 1.00 1.00 1.00 6076 LB 40 .69 .69 .69 6077 LB 10 1.00 1.00 608 6089 LB 199 .60 .60 .60 .60 6089 LB 2747 1.00 .36 .62 6089 LB 2747 1.00 .36 .62 6093 LB 173 .05 .05 .05 6107 LB 173 .05 .05 .05 6107 LB 2747 1.00 .36 .62 6089 LB 199 .60 .60 .60 .60 6089 LB 2747 1.00 .36 .62 6107 LB 175 3.42 3.42 3.42 7000 LB 1900 .66 .66 .66 606 .66 607000A LB 8250 .32 .32 .32 7000A LB 8250 .32 .32 .32 7000A LB 8250 .32 .32 .32 7000A LB 6167 .53 .42 .46						
6015 GL 934 5.50 .10 2.65 6016 GL 1995 3.00 3.00 3.00 6020 LB 31976 1.50 .10 .52 6021 LB 4460 .40 .28 .36 6022 LB 50 .40 .40 .40 .40 6023 GL 55 3.00 3.00 3.00 6025 GL 165 .05 .05 .05 .05 6026 GL 1095 4.50 .50 .50 .268 6026 LB 525 2.00 .50 .125 6033 LB 426186 .50 .14 .44 .44 6048 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 1.10 6050 LB 7 .60 .60 .60 6053 GL 4014 2.31 .50 1.73 6055 GL 1758 8.29 .10 .278 6055 GL 1758 8.29 .10 .278 6055 LB 25 .10 .10 .10 .10 6056 GL 24 .55 .50 .20 .20 6066 GL 24 .55 .50 .20 6067 GL 24 .55 .54 .54 6056 GL 24 .55 .54 .54 6056 GL 24 .55 .50 .20 6068 GL 275 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 6069 LB 10 1.00 1.00 1.00 6062 GL 35 4.00 4.00 4.00 6072 GL 175 3.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 6069 LB 199 .60 .60 .60 6070 GL B 10 1.00 1.00 1.00 6071 LB 10 1.00 1.00 1.00 6080 LB 199 .60 .60 .60 .60 6089 LB 234316 52.00 0.00 .60 6089 LB 27747 1.00 3.6 .62 6093 LB 173 .05 .05 .05 6102 LB 27747 1.00 3.6 .62 60600 LB 199 .60 .60 .60 6089 LB 224316 52.00 0.00 .63 6089 LB 27747 1.00 3.6 .62 6070 LB 173 .05 .05 .05 6107 LB 1900 .66 .66 .66 626 67000A LB 1900 .66 .66 .66 66 .66 67000A LB 1900 .66 .66 .66 67000A LB 1900 .66 .66 .66 67000A LB 1910 .66 .66 .66 67000A LB 131 .663 .63 .63						
6016 GL 1995 3.00 3.00 3.00 3.00 6020 LB 31976 1.50 .10 .52 .52 .36 .36 .36 .36 .36 .36 .36 .36 .36 .36						
6020 LB 31976 1.50 .10 .52 6021 LB 4460 .40 .28 .36 6022 LB 50 .40 .40 .40 6023 GL 55 3.00 3.00 3.00 6025 GL 165 .05 .05 .05 6026 GL 1095 4.50 .50 .50 .268 6026 LB 525 2.00 .50 .14 .44 6045 GL 7 4.00 4.00 4.00 6048 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 1.10 6050 LB 7 .60 .60 .60 6053 GL 4014 2.31 .50 1.73 6055 0 0.00 0.00 0.00 6055 GL 1758 8.29 .10 2.78 6056 LB 25 .10 .10 1.0 6056 GL 24 .55 .5 .54 .54 6056 LB 60 1.00 1.00 1.00 6062 GL 24 .55 .200 2.00 2.00 6068 GL 275 2.00 2.00 2.00 6068 GL 275 3.00 2.00 2.00 6060 LB 175 3.00 1.00 1.00 6072 GL 175 3.00 1.60 2.53 6074 GL 35 4.00 4.00 4.00 6076 LB 40 60 1.00 1.00 1.00 6077 LB 10 10 1.00 1.00 6080 LB 199 .60 .60 .60 6089 LB 234316 52.00 0.00 .60 6089 LB 234316 52.00 0.00 .60 6089 LB 27747 1.00 1.00 1.00 6080 LB 199 .60 .60 .60 .60 .60 .60 .60 6080 LB 190 .66 .66 .66 .66 606 .66 .66 .66 .66 .66 60 .60 .60 .60 .60 .60 .60 .60 .60 .60 .						
6021 LB 4460 .40 .28 .36 6022 LB 50 .40 .40 .40 .40 .40 .6023 GL 55 .300 .3.00 .3.00 .3.00 .6025 GL 165 .05 .05 .05 .05 .05 .6026 GL 1095 .4.50 .50 .50 .2.68 .6026 GL 1095 .4.50 .50 .50 .2.68 .6026 GL B 525 .2.00 .50 .14 .44 .44 .6045 GL 7 .4.00 .4.00 .4.00 .4.00 .6048 GL 23 .4.50 .3.58 .4.32 .6049 LB 63131 .2.00 .10 .10 .10 .6050 LB 7 .60 .60 .60 .60 .60 .60 .60 .60 .6053 GL 4014 .2.31 .50 .1.73 .6055 GL 1758 8.29 .10 .2.78 .6055 GL 1758 8.29 .10 .2.78 .6055 GL 24 .55 .10 .10 .10 .10 .6056 GL 24 .55 .54 .54 .54 .6056 LB .60 .50 .50 .2.00 .2.00 .2.00 .6068 GL 275 .2.00 .2.00 .2.00 .2.00 .6068 GL 275 .2.00 .2.00 .2.00 .6068 GL 275 .2.00 .2.00 .2.00 .6072 GL 175 .300 .1.60 .2.53 .6074 GL 35 .4.00 .4.00 .4.00 .4.00 .6060 LB .199 .60 .60 .69 .69 .69 .69 .69 .609 .609						
6022         LB         50         .40         .40         .40           6023         GL         55         3.00         3.00         3.00           6026         GL         165         .05         .05         .05           6026         LB         525         2.00         .50         1.25           6033         LB         426186         .50         .14         .44           6045         GL         7         4.00         4.00         4.00           6048         GL         23         4.50         3.58         4.32           6049         LB         63131         2.00         .10         1.10           6050         LB         7         .60         .60         .60           6053         GL         4014         2.31         .50         1.73           6055         GL         1758         8.29         .10         2.78           6055         GL         1758         8.29         .10         2.78           6055         LB         25         .10         .10         .10           6056         GL         24         .55         .54         .54 </td <td></td> <td>LB</td> <td></td> <td></td> <td></td> <td></td>		LB				
6023         GL         55         3.00         3.00         3.00           6025         GL         1655         .05         .05         .05           6026         GL         1095         4.50         .50         1.25           6033         LB         426186         .50         .14         .44           6045         GL         7         4.00         4.00         4.00           6048         GL         23         4.50         3.58         4.32           6049         LB         63131         2.00         .10         1.10           6050         LB         7         .60         .60         .60           6053         GL         4014         2.31         .50         1.73           6055         G         1758         8.29         .10         2.78           6055         GL         1758         8.29         .10         2.78           6055         GL         1758         8.29         .10         2.78           6055         GL         1758         8.29         .10         2.78           6056         GL         24         .55         .54         .54 <td></td> <td>LB</td> <td></td> <td>•</td> <td></td> <td></td>		LB		•		
6025         GL         165         .05         .05         .05           6026         GL         1095         4.50         .50         2.68           6026         LB         525         2.00         .50         1.25           6033         LB         426186         .50         .14         .44           6045         GL         7         4.00         4.00         4.00           6048         GL         23         4.50         3.58         4.32           6049         LB         63131         2.00         .10         1.10           6050         LB         7         .60         .60         .60           6053         GL         4014         2.31         .50         1.73           6055         GL         1758         8.29         .10         2.78           6055         GL         1758         8.29         .10         2.78           6055         LB         25         .10         .10         .10           6055         LB         25         .10         .10         .10           6056         GL         24         .55         .54         .54     <		LB	50			
6026         GL         1095         4.50         .50         2.68           6026         LB         525         2.00         .50         1.25           6033         LB         426186         .50         .14         .44           6045         GL         7         4.00         4.00         4.00           6048         GL         23         4.50         3.58         4.32           6049         LB         63131         2.00         .10         1.10           6050         LB         7         .60         .60         .60           6053         GL         4014         2.31         .50         1.73           6055         0         0.00         0.00         0.00         0.00           6055         GL         1758         8.29         .10         2.78           6055         LB         25         .10         .10         10           6055         LB         25         .10         .10         10           6055         LB         25         .10         .10         10           6056         GL         24         .55         .54         .54	6023	GL				
6026         LB         525         2.00         .50         1.25           6033         LB         426186         .50         .14         .44           6045         GL         7         4.00         4.00         4.00           6048         GL         23         4.50         3.58         4.32           6049         LB         63131         2.00         .10         1.10           6050         LB         7         .60         .60         .60           6053         GL         4014         2.31         .50         1.73           6055         0         0.00         0.00         0.00         0.00           6055         GL         1758         8.29         .10         2.78           6055         LB         25         .10         .10         2.78           6055         LB         25         .10         .10         2.78           6055         LB         25         .10         .10         .10           6056         LB         60         1.00         1.00         1.00           6062         GL         275         2.00         2.00         2.00	6025	GL	165	.05		
6033 LB 426186 .50 .14 .44 6045 GL 7 4.00 4.00 4.00 6048 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 1.10 6050 LB 7 .60 .60 .60 .60 6053 GL 4014 2.31 .50 1.73 6055 GL 1758 8.29 .10 2.78 6055 LB 25 .10 .10 .10 .10 6056 GL 24 .55 .54 .54 6056 LB 60 1.00 1.00 1.00 6062 GL 505 5.50 2.00 2.00 2.00 6062 GL 505 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 6072 GL 175 3.00 1.60 2.53 6074 GL 35 4.00 4.00 4.00 6076 LB 40 40 .69 .69 .69 69 6077 LB 10 10 1.00 1.00 6080 LB 199 .60 .60 .60 .60 .60 60 608  LB 173 .05 .05 .05 .05 6102 LB 2747 1.00 .32 .32 .32 .32 6093 LB 173 .05 .05 .05 .05 6102 LB 27747 1.00 .36 .62 62 6107 EA 12 .40 .40 .40 .40 .40 .40 .40 .60 .60 .60 .60 .60 .60 .60 .60 .60 .6	6026	${f GL}$	1095	4.50		2.68
6045         GL         7         4.00         4.00         4.00           6048         GL         23         4.50         3.58         4.32           6049         LB         63131         2.00         .10         1.10           6050         LB         7         .60         .60         .60           6053         GL         4014         2.31         .50         1.73           6055         0         0.00         0.00         0.00         0.00           6055         GL         1758         8.29         .10         2.78           6055         LB         25         .10         .10         .10           6055         LB         25         .10         .10         .10           6056         GL         24         .55         .54         .54           6056         LB         60         1.00         1.00         1.00           6062         GL         505         2.00         2.00         2.00           6062         GL         505         2.00         2.00         2.00           6072         GL         175         3.00         1.60         2.53	6026	LB	525	2.00	.50	1.25
6048 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 1.10 6050 LB 7 .60 .60 .60 .60 .60 .60 .60 .60 .60 .60	6033	LB	426186	.50	.14	.44
6048 GL 23 4.50 3.58 4.32 6049 LB 63131 2.00 .10 1.10 6050 LB 7 .60 .60 .60 .60 .60 .60 .60 .60 .60 .60		GL	7	4.00	4.00	4.00
6049         LB         63131         2.00         .10         1.10           6050         LB         7         .60         .60         .60           6053         GL         4014         2.31         .50         1.73           6055         0         0.00         0.00         0.00         0.00           6055         GL         1758         8.29         .10         2.78           6055         LB         25         .10         .10         .10           6056         GL         24         .55         .54         .54           6056         LB         60         1.00         1.00         1.00           6062         GL         505         2.00         2.00         2.00           6062         GL         505         2.00         2.00         2.00           6072         GL         175         3.00         1.60         2.53           6074         GL         35         4.00         4.00         4.00           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60			23		3.58	4.32
6050 LB 7 .60 .60 .60 .60 6053 GL 4014 2.31 .50 1.73 6055 0 0 0.00 0.00 0.00 0.00 6055 GL 1758 8.29 .10 2.78 6055 LB 25 .10 .10 .10 .10 6056 GL 24 .55 .54 .54 6056 LB 60 1.00 1.00 1.00 1.00 6062 GL 505 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 6068 GL 275 2.00 2.00 2.00 6072 GL 175 3.00 1.60 2.53 6074 GL 35 4.00 4.00 4.00 6076 LB 40 40 .69 .69 .69 6077 LB 10 1.00 1.00 1.00 6080 LB 199 .60 .60 .60 .60 6080 LB 199 .60 .60 .60 .60 6080 LB 199 .60 .60 .60 .60 6089 LB 234316 52.00 0.00 .63 6089 LN* 1 32 .32 .32 .32 6093 LB 173 .05 .05 .05 .05 6102 LB 27747 1.00 .36 .62 66 66 .66 6107 EA 12 .40 .40 .40 .40 .40 6107 LB 72 1.50 0.00 .97 6501 GL 15 3.42 3.42 3.42 7000 LB 1900 .66 .66 .66 .66 .66 .66 7000A LB 8250 .32 .32 .32 .32 .32 .32 .32 .32 .32 .32			63131	2.00	.10	1.10
6053         GL         4014         2.31         .50         1.73           6055         GL         1758         8.29         .10         2.78           6055         LB         25         .10         .10         .10           6056         GL         24         .55         .54         .54           6056         LB         60         1.00         1.00         1.00           6062         GL         505         2.00         2.00         2.00           6068         GL         275         2.00         2.00         2.00           6072         GL         175         3.00         1.60         2.53           6074         GL         35         4.00         4.00         4.00           6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6093         LB         173         .05         .05         .05						
6055         GL         1758         8.29         .10         2.78           6055         LB         25         .10         .10         .10           6056         GL         24         .55         .54         .54           6056         LB         60         1.00         1.00         1.00           6062         GL         505         2.00         2.00         2.00           6068         GL         275         2.00         2.00         2.00           6072         GL         175         3.00         1.60         2.53           6074         GL         35         4.00         4.00         4.00           6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6089         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62			4014			
6055         GL         1758         8.29         .10         2.78           6055         LB         25         .10         .10         .10           6056         GL         24         .55         .54         .54           6056         LB         60         1.00         1.00         1.00           6062         GL         505         2.00         2.00         2.00           6068         GL         275         2.00         2.00         2.00           6072         GL         175         3.00         1.60         2.53           6074         GL         35         4.00         4.00         4.00           6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05						
6055         LB         25         .10         .10         .10           6056         GL         24         .55         .54         .54           6056         LB         60         1.00         1.00         1.00           6062         GL         505         2.00         2.00         2.00           6068         GL         275         2.00         2.00         2.00           6072         GL         175         3.00         1.60         2.53           6074         GL         35         4.00         4.00         4.00           6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40 <td< td=""><td></td><td><math>\operatorname{GL}</math></td><td></td><td></td><td></td><td></td></td<>		$\operatorname{GL}$				
6056         GL         24         .55         .54         .54           6056         LB         60         1.00         1.00         1.00           6062         GL         505         2.00         2.00         2.00           6068         GL         275         2.00         2.00         2.00           6072         GL         175         3.00         1.60         2.53           6074         GL         35         4.00         4.00         4.00           6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40						
6056         LB         60         1.00         1.00         1.00           6062         GL         505         2.00         2.00         2.00           6068         GL         275         2.00         2.00         2.00           6072         GL         175         3.00         1.60         2.53           6074         GL         35         4.00         4.00         4.00           6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97						
6062         GL         505         2.00         2.00         2.00           6068         GL         275         2.00         2.00         2.00           6072         GL         175         3.00         1.60         2.53           6074         GL         35         4.00         4.00         4.00           6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6081         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97           6501         GL         15         3.42         3.42         3.42						
6068         GL         275         2.00         2.00         2.00           6072         GL         175         3.00         1.60         2.53           6074         GL         35         4.00         4.00         4.00           6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97           6501         GL         15         3.42         3.42         3.42           7000         LB         1900         .66         .66         .66						
6072         GL         175         3.00         1.60         2.53           6074         GL         35         4.00         4.00         4.00           6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97           6501         GL         15         3.42         3.42         3.42           7000         LB         1900         .66         .66         .66           7000A         LB         8250         .32         .32         .32						
6074         GL         35         4.00         4.00         4.00           6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97           6501         GL         15         3.42         3.42         3.42           7000         LB         1900         .66         .66         .66           7000A         LB         8250         .32         .32         .32           7000A         LB         131         .63         .63         .63 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
6076         LB         40         .69         .69         .69           6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97           6501         GL         15         3.42         3.42         3.42           7000         LB         1900         .66         .66         .66           7000A         LB         8250         .32         .32         .32           7000A         LB         131         .63         .63         .63           7002         LB         6167         .53         .42         .46 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
6077         LB         10         1.00         1.00         1.00           6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97           6501         GL         15         3.42         3.42         3.42           7000         LB         1900         .66         .66         .66           7000A         LB         8250         .32         .32         .32           7000A         LB         131         .63         .63         .63           7002         LB         6167         .53         .42         .46						00
6080         LB         199         .60         .60         .60           6089         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97           6501         GL         15         3.42         3.42         3.42           7000         LB         1900         .66         .66         .66           7000A         LB         8250         .32         .32         .32           7000A         LB         131         .63         .63         .63           7002         LB         6167         .53         .42         .46						
6089         LB         234316         52.00         0.00         .63           6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97           6501         GL         15         3.42         3.42         3.42           7000         LB         1900         .66         .66         .66           7000A         LB         8250         .32         .32         .32           7000A         LB         131         .63         .63         .63           7002         LB         6167         .53         .42         .46					60	
6089         LN*         1         .32         .32         .32           6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97           6501         GL         15         3.42         3.42         3.42           7000         LB         1900         .66         .66         .66           7000A         LB         8250         .32         .32         .32           7000A         LB         131         .63         .63         .63           7002         LB         6167         .53         .42         .46						
6093         LB         173         .05         .05         .05           6102         LB         27747         1.00         .36         .62           6107         EA         12         .40         .40         .40           6107         LB         72         1.50         0.00         .97           6501         GL         15         3.42         3.42         3.42           7000         LB         1900         .66         .66         .66           7000A         LB         8250         .32         .32         .32           7000A         LB         131         .63         .63         .63           7002         LB         6167         .53         .42         .46						
6102       LB       27747       1.00       .36       .62         6107       EA       12       .40       .40       .40         6107       LB       72       1.50       0.00       .97         6501       GL       15       3.42       3.42       3.42         7000       LB       1900       .66       .66       .66       .66         7000A       LB       8250       .32       .32       .32       .32         7000A       LB       131       .63       .63       .63       .63         7002       LB       6167       .53       .42       .46						
6107       EA       12       .40       .40       .40         6107       LB       72       1.50       0.00       .97         6501       GL       15       3.42       3.42       3.42         7000       LB       1900       .66       .66       .66       .66         7000A       LB       8250       .32       .32       .32       .32         7000A       LB       131       .63       .63       .63       .63         7002       LB       6167       .53       .42       .46						
6107     LB     72     1.50     0.00     .97       6501     GL     15     3.42     3.42     3.42       7000     LB     1900     .66     .66     .66       7000A     LB     8250     .32     .32     .32       7000A     LB     131     .63     .63     .63       7002     LB     6167     .53     .42     .46						
6501     GL     15     3.42     3.42     3.42       7000     LB     1900     .66     .66     .66       7000A     LB     8250     .32     .32     .32       7000A     LB     131     .63     .63     .63       7002     LB     6167     .53     .42     .46						
7000     LB     1900     .66     .66     .66       7000A     LB     8250     .32     .32     .32       7000A     LB     131     .63     .63     .63       7002     LB     6167     .53     .42     .46						. 97
7000A     LB     8250     .32     .32       7000A     LB     131     .63     .63     .63       7002     LB     6167     .53     .42     .46						
7000A LB 131 .63 .63 .63 .63 7002 LB 6167 .53 .42 .46						
7002 LB 6167 .53 .42 .46						
7002A LB 2700 .50 .50 .50						
	/UUZA	rB	2700	.50	.50	.50

<sup>\*</sup>Apparent error in entry to database by DRMS; assume "LN" should be "LB" for pound.

APPENDIX F - continued

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
7002A	LB	120	. 62	. 62	. 62
7004	LB	3489	.51	. 42	.46
7004A	LB	3050	.29	.29	.29
7005A	ГB	325	.27	.27	.27
7007	LB	64372	.82	. 48	. 61
7007A	LB	3240	. 67	. 67	. 67
7007A	LB	37845	. 42	. 42	. 42
7007A	LB	7340	. 65	. 62	. 64
7007A	LB	6119	.57	.57	.57 .65
7007A	LB	285	. 65	. 65	.53
7008	LB	4055	.54	.48	.33
7008A	LB	15400	.33	.33 .36	.36
7009A	LB	372	.36	.59	.59
7009A	LB	500	.59	.62	. 62
7009A	LB	10856	.62 .97	. 42	.49
7010	LB	46922	.47	. 47	.47
7010A	LB	908	.52	.52	. 52
7010A	LB	1885 49305	.31	.31	.31
7010A	LB	1980	.50	.47	.49
7010A	LB	1400	.50	.50	.50
7010A	LB LB	370	.50	.50	.50
7010A	LB	3396	.47	.47	.47
7010A 7011A	LB	6794	.27	.27	.27
7011A 7012	LB	67366	.57	.42	.48
7012A	LB	2706	.32	. 32	. 32
7012A	LB	56794	. 48	.48	. 48
7013	LB	5050	. 43	.43	. 43
7013A	LB	3500	.27	.27	.27
7014	LB	124	.37	.37	.37
7014A	LB	342	.99	.99	. 99
7015	LB	1649	1.60	. 97	1.00
7015A	LB	165	1.07	1.07	1.07
7015A	LB	715	1.09	1.09	1.09
7015A	LB	5400	1.02	1.02	1.02
7015A	LB	241	.97	. 97	. 97
7019	LB	35	. 47	.47	. 47
7027	LB	580	.33	.33	.33
7028	LB	2027	. 63	. 42	.57
7028A	LB	5196	.27	.27	.27
7029	LB	8440	.36	.27	.31
7029A	LB	510	.27	.27	.27
7030	LB	2818	.78	. 68	.73 .47
7030A	LB	24021	. 47	.47	.46
7031	LB	1570	. 48	. 43	.34
7031A	LB	16170	.34	.34	.43
7032	LB	3725 13010	.54 .31	.33	.31
7032A	LB	13010	.65	.65	.65
7128A	LB	1800	.37	. 37	.37
7129A	LB	1787 7000	.37	.35	.35
7129A	LB LB	1200	.30	.30	.30
7132A 7132A	LB	5400	.30	.30	.30
/132M	LD	2400	.50		

NOTE: EA = each; GL = gallon; LB = pound; DR = drum; QT - quart; OZ - ounce; PT - pint; BT - bottle; BX - box; TU - tube; YD = cubic yard.

APPENDIX G:
UNIT COST SUMMARIES PER CLIN (AMC)

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
0001	DM	1	20.00	20.00	20.00
0001	EA	11	30.00	0.00	8.33
0001	GL	4	12.00	10.00	11.00
0002	DM	372	17.00	7.00	16.69
0002	EA	1625	18.00	0.00	9.47
0002	LB	16	9.00	2.00	5.50
0003	EA	3	0.00	0.00	0.00
0004	EA	2	12.00	12.00	12.00
0005	EA	15	10.00	9.00	9.50
0005	LB	2309	5.00	1.71	3.83
0006	GL	120	7.50	4.25	6.27
0009	GL	990	5.20	5.20	5.20
0010	GL	1	.20	.20	.20
0011	GL	2145	1.25	1.25	1.25
0016	DM	670	.18	.18	.18
0016	GL	50	3.00	3.00	3.00
0016	LB	136810	.18	.18	.18
0018	LB	2	. 45	.45	.45
0020	GL	50	2.40	2.40	2.40
0020 0022	LB D <b>M</b>	215 2	.50 17.00	.50 17.00	.50 17.00
0022	GL	110	2.75	2.75	2.75
0020	GL	1430	4.50	4.50	4.50
0030	GL	330	1.20	1.20	1.20
0032	GL	110	1.60	1.60	1.60
0034	GL	3355	1.98	1.98	1.98
0035	ĞĹ	55	1.40	1.40	1.40
0036	GL	275	6.00	6.00	6.00
0039	GL	1155	6.00	2.25	4.13
0040	EA	15	100.00	100.00	100.00
0041	GL	1980	1.80	1.80	1.80
0043	LB	24501	.25	.25	.25
0044	LB	310	.75	.75	.75
0046	GL	3155	6.00	2.80	2.98
0048	${f GL}$	85	1.60	1.60	1.60
0049	GL	1020	3.00	3.00	3.00
0057	GL	545	6.00	1.75	3.88
0058	GL	5305	1.50	1.50	1.50
0059	GL	825	6.00	6.00	6.00
0060 0061	LB	400	2.00	2.00	2.00
0063	GL GL	2035 2785	2.20 5.00	2.20	2.20
0064	GL	2765 55	4.00	0.00 4.00	3.69 4.00
0066	GL	49	3.10	3.10	3.10
0069	GL	150	1.30	1.30	1.30
0071	GL	55	5.00	5.00	5.00
0075	GL	3250	4.00	4.00	4.00
0077	${ t GL}$	55	4.50	4.50	4.50
0800	LB	50	1.00	1.00	1.00
0081	GL	50	2.40	2.40	2.40
0089	GL	20	3.00	3.00	3.00
0089	LB	560	10.00	10.00	10.00
0091	GL	18470	6.00	6.00	6.00
0092	GL	706	6.00	2.90	4.45
0093	GL	15600	2.00	0.00	.55

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
		0.40	20		
0094 0101	LB GL	840 330	.32 6.00	0.00 6.00	.16 6.00
0101	GL	10	2.67	2.67	2.67
0107	GL	205	1.97	1.40	1.69
0111	GL	50	1.70	1.70	1.70
0111	LB	59	1.36	1.36	1.36
0114 0118	LB GL	105114 2475	.45 5.00	.38	.45
0116	GL	440	5.00	5.00 5.00	5.00 5.00
0137	GL	385	2.00	2.00	2.00
0147	GL	300	1.65	0.00	.83
0147	LB	1954	. 40	. 40	.40
0148	LB	58500	.17	0.00	.07
0163 0201	GL GL	1650 130	3.60 2.00	3.60 2.00	3.60 2.00
0201	LB	250	1.00	1.00	1.00
0205	LB	1200	.70	0.00	.35
0207	GL	35	2.00	2.00	2.00
0211	GL	50	4.00	4.00	4.00
0378	GL	2700	.90	0.00	.24
0381 0500	TN LB	26 1254	315.00 2.00	315.00 .45	315.00 1.25
0501	LB	872	10.00	3.35	6.91
0503	LB	501	3.35	.38	1.70
0504	LB	25	1.30	1.30	1.30
1200	GL	55	.58	.58	.58
1200	LB	8108	1.00	.20	.54
1201 1201	EA GL	1 2177	9.48 2.02	9.48 .30	9.48
1201	LB	455933	9.00	0.00	.72 1.22
1203	LB	85	.56	.56	.56
1300	EA	5	3.41	3.41	3.41
1300	GL	10	10.00	8.00	9.71
1301	EA	23	10.45	8.00	9.23
1301 1302	LB EA	10 12	2.00 6.00	2.00 1.00	2.00 3.50
1303	EA	89	8.50	.72	5.07
1304	LB	2210	2.00	. 46	1.13
1305	GL	14666	10.00	0.00	2.38
1305	LB	85	1.25	1.25	1.25
1309	GL	460	9.00	0.00	5.41
1310 1311	GL GL	710 5179	1.99 7.00	1.60	1.66
1313	GL	50	2.09	7.00 2.09	7.00 2.09
1314	GL	7066	2.00	1.75	1.83
1317	GL	5691	5.00	1.25	2.39
1323	LB	2315	.40	.23	.29
1502 1505	PT GL	1 10	16.00	16.00	16.00
1555	GL	1477	2.25 7.00	2.25 7.00	2.25 7.00
1556	GL	3066	3.00	.70	1.16
1560	LB	1137	1.15	1.15	1.15
1561	GL	5792	2.16	2.16	2.16
1562	GL	2414	3.88	0.00	2.58
1563 1564	GL GL	2250 <b>412</b> 5	2.29	0.00	1.12
1565	GL	110	1.80 1.75	1.80 1.75	1.80 1.75
1565	LB	350	1.75	1.75	1.75
1568	GL	5583	2.16	1.86	1.94

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
1569	GL	8314	5.79	5.79	5.79
1572	GL	40	.10	.10	.10
1575	LB	400	1.00	1.00	1.00
1651	EA	6	16.33	1.00	5.49
1651	GL	1	10.00	10.00	10.00
1652	EA	5	8.00	8.00	8.00
1652	LB	19	5.00	2.00	4.14
1654	EA	20	8.50	8.50	8.50 .68
1655	LB	6483	2.01	.10 .65	2.21
1656	GL	11957 157	7.00 3.50	3.12	3.40
1658	GL GL	23354	1.41	1.41	1.41
1659 1659	LB	782	.65	. 46	.59
1660	GL	25005	6.00	1.36	2.63
1660	LB	9835	1.50	1.36	1.43
1662	GL	220	2.66	2.66	2.66
1668	LB	300	.20	.20	.20
1900	GL	10	3.10	3.10	3.10 1.54
1902	GL	1863	3.25	.10 1.00	1.38
1908	GL	835	2,50 ,50	.50	.50
1909	GL	6572 29938	2.76	.10	1.95
1912 2000	GL EA	29938	4.99	4.99	4.99
2001	LB	48	11.60	2.00	5.13
2002	PT	1	14.00	14.00	14.00
2003	EA	838	9.50	9.50	9.50
2004	GL	560	1.00	1.00	1.00
2004	LB	97475	1.00	0.00	. 62
2005	GL	3992	5.00	.05 4.00	1.84 4.00
2007	GL	1 518330	4.00 .50	0.00	.17
2100	LB GL	605	2.50	2.50	2.50
2108 2111	GL	1485	2.16	2.16	2.16
2114	GL	104	.10	.10	.10
2117	LB	18311	. 62	0.00	.19
2120	LB	22	.10	.10	.10
2121	GL	3495	3.88	2.10	2.95
2121	LB	660	2.10	2.10	2.10 1.41
2124	GL	1320	1.41	1.41 2.00	2.00
2125	GL	3150 4850	2.00 2.00	2.00	2.00
2125	LB	7505	.40	.38	.39
2126 2127	LB LB	3236	.28	.28	.28
2128	GL	1200	1.90	1.90	1.90
2129	GL	50	3.00	<b>3.00</b>	3.00
2130	LB	91660	.35	.10	. 33
2131	LB	779	.60	.45	.51
2133	CD	240	195.00	195.00	195.00 .37
2136	LB	54726 52222	.50	.10 .05	.05
2137 2142	LB LB	52323 94817	.05 .20	.20	.20
2143	LB	292600	.18	.18	.18
2300	EA	28	8.00	1.00	3.80
2300	GL	79	11.60	2.00	8.93
2300	LB	2	20.00	20.00	20.00
2300	QT	2	20.00	20.00	20.00
2301	EA	273	12.20 8.00	8.00 2.00	11.60 4.73
2301 2302	LB EA	80 151	8.95	1.00	2.33
2002	DA		3.35		

APPENDIX G - continued

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
		_	4.4.00	4.4.00	14.00
2302	OZ	7	14.00	14.00 14.00	14.00 14.00
2302 2303	PT EA	11 67	14.00 8.50	1.49	5.20
2303	KT	5	14.00	14.00	14.00
2303	ML	20	14.00	14.00	14.00
2303	oz	18	14.00	14.00	14.00
2304	LB	8131	1.15	.10	.80
2305	GL	3877	11.99	0.00	2.77
2305	LB	3	.90	.39	.64
2306	EA	1	1.00	1.00	1.00
2306 2307	LB	16	5.75 .65	1.00 .46	2.58 .55
2307	LB GL	154 118	2.60	.05	2.02
2310	GL	925	6.00	.50	2.33
2310	LB	105	1.15	1.15	1.15
2311	GL	100	1.99	1.95	1.97
2315	GL	2298	5.00	0.00	1.57
2318	LB	176	.20	.20	.20
2322	GL	35	.50	.50 2.65	.50
2323 2324	GL GL	200 2	2.65 .10	.10	2.65 .10
2324	LB	108	.23	.23	.23
2351	LB	8	.10	.10	.10
2361	GL	52	1.00	1.00	1.00
2901	GL	880	3.00	3.00	3.00
2903	GL	180	4.34	4.34	4.34
2913	GL	1430	1.56	1.56	1.56
2914	GL	5665	3.00	2.02	2.28
3058	GL	110	1.50 5.00	1.50 5.00	1.50 5.00
3100 3100	EA GL	2 1	10.00	10.00	10.00
3100	PT	i	20.00	20.00	20.00
3102	EA	20	1.00	1.00	1.00
3103	EA	80	3.20	1.49	2.34
3103	PT	4	14.00	14.00	14.00
3104	GL	40	.46	. 46	.46
3104	LB	10109	1.50	.05	. 43
3105	GL	2091	10.36	.05	2.49
3106 3107	LB GL	9 52	3.99 5.00	2.65 5.00	3.32 5.00
3107	GL	455	5.00	.10	1.75
3109	GL	110	4.90	4.90	4.90
3110	GL	170	.05	.05	.05
3112	GL	120	4.90	.50	2.70
3114	GL	1225	1.00	.50	.88
3117	GL	6	.50	.50	.50
3300	GL	15573	5.00	.05	2.46
3300	LB	5235 3346	.05	.05	.05
3301 3304	LB GL	3246 1830	.65 4.70	0.00	.46 4.34
3305	GL	767	10.36	0.00	2.53
3305	LB	1090	.29	.29	.29
3306	LB	129186	1.10	.05	. 40
3307	LB	5960	1.00	0.00	.41
3309	GL	10540	4.00	0.00	1.07
3309	LB	55	0.00	0.00	0.00
3400	GL	3	13.65	13.65	13.65
3401 3404	LB LB	40 270	13.65	13.65	13.65
3404	מת	270	.75	.75	.75

APPENDIX G - continued

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
2405	<b>~</b> *	116	13.00	5.33	6.62
3405 3405	GL HL	1	6.46	6.46	6.46
3405	GL	4	.50	.50	.50
3410	LB	10	4.25	4.25	4.25
3418	LB	460767	.21	.21	.21
3700	EA	44	16.33	15.00	15.22
3700	GL	4	12.20	12.20	12.20
3701	LB	6	12.20	12.20	12.20
3703	EA	36	1.49	1.49	1.49 .91
3704	LB	140	. 91	.91 .50	3.14
3705	GL	345 50	4.46 3.25	3.25	3.25
3707	GL	51	4.00	4.00	4.00
3709 3804	GL LB	350	.50	.50	.50
3900	QT	2	13.00	13.00	13.00
3901	ĒA	22	9.80	9.80	9.80
3902	PT	1	8.00	8.00	8.00
3904	LB	4325	.36	.25	.27
3905	GL	1026	4.00	.50	1.75 2.24
3909	GL	2590	2.42	1.00 2.25	2.25
3910	GL	3 <b>422</b> 37605	2.25 2.25	1.00	1.62
3911 3912	GL GL	150	2.75	2.75	2.75
3914	GL	556	3.00	2.42	2.86
3915	GL	97301	2.75	1.00	2.55
3916	GL	100	1.50	1.00	1.25
3918	GL	245	3.42	3.42	3.42
3919	LB	4225	.85	. 65	.80 2.90
3920	GL	165	2.90 3.59	2.90 0.00	1.77
3921	GL GL	46561 1155	2.42	1.60	1.76
3922 3924	GL	80	4.00	4.00	4.00
3926	GL	970	1.60	1.25	1.46
3928	GL	1733	3.29	1.92	2.20
3929	GL	275	1.60	1.60	1.60
3930	GL	107	2.65	2.65	2.65
3933	GL	50	.05	.05	.05 6.00
3936	GL GL	69450 1595	6.00 1.60	6.00 1.60	1.60
3937 4201	EA	3	10.00	9.48	9.74
4201	LB	31	3.00	2.00	2.80
4202	EA	1	5.81	5.81	5.81
4203	EA	246	11.50	5.81	8.89
4204	LB	530	4.44	2.00	2.95
4205	GL	9	6.89	6.89	6.89 16.33
4500	EA	2 2	16.33 .40	16.33 .40	.40
4500 4501	GL E <b>A</b>	32	25.50	25.50	25.50
4501	EA	215	13.50	1.00	6.99
4503	EA	494	6.50	6.50	6.50
4503	OZ	6	16.00	16.00	16.00
4504	GL	1950	5.25	5.25	5.25
4504	LB	51403	4.00	1.00	1.50
4505	GL	29954	10.36	1.00	3.30 2.00
4505	LB	6500 8	2.00 1.00	2.00 1.00	1.00
4506 4507	LB GL	1450	3.89	.30	2.70
4518	GL	5	4.95	2.67	4.19
4519	GL	4728	4.00	1.00	2.79

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
		24	4 1 4	50	2 55
4520	GL GL	3 <b>4</b> 406	4.14 4.14	.50 2.00	2.55 2.98
4526 4527	GL	419	10.36	1.00	3.25
4527 4527	LB	1	4.00	4.00	4.00
4528	GL	6576	8.00	.50	3.55
4529	GL	1395	3.75	.50	.73
4531	GL	50	4.14	4.14	4.14
4533	GL	208	2.00	2.00	2.00
4536	GL	4	2.00	2.00	2.00
4700	GL	25	4.14	4.14	4.14
4703	GL	105	3.00	3.00	3.00
4704	GL	23777	10.36	2.45	3.58
4705	GL	23958	10.36	.50	4.31
4706	GL	10678	3.00	1.40	1.56 1.40
4706	LB	55 2132	1.40 2.50	1.40 2.50	2.50
4712	GL GL	4545	6.46	5.00	6.32
4714 4715	GL	74	2.50	2.50	2.50
4719	LB	2950	1.50	.75	.94
4720	GL	16463	4.00	.50	2.83
4721	LB	43679	4.00	1.00	1.25
4722	GL	30222	7.46	.50	3.80
4723	GL	252	6.00	3.00	4.50
4725	GL	780	3.00	3.00	3.00
4725	LB	110	3.00	3.00	3.00
4726	GL	100	6.00	6.00	6.00
4729	GL	220	2.50	2.50	2.50
4731	GL	335	5.50	3.88	4.20
4732	GL	7863 25957	4.00 1.35	2.27 1.04	3.82 1.25
4733 4742	LB GL	10065	1.35	1.35	1.35
5005	GL	2011	5.00	2.35	4.80
5007	GL	103	2.00	.05	1.02
5010	GL	2601	1.67	.50	. 65
5011	GL	276	2.50	.50	1.72
5012	GL	206	6.00	2.15	3.43
5015	GL	55	4.19	4.19	4.19
5500	${f GL}$	35	3.00	3.00	3.00
5500	LB	188949	1.15	0.00	. 44
5501	GL	165	2.15	1.66	1.82
5502	DM DB	3	150.00	150.00	150.00
5502 5504	DR LB	2 975	162.00 .05	162.00 .05	162.00 .05
5507	LB	14190	.31	.31	.31
5600	EA	6	10.00	9.47	9.74
5600	GL	8	15.00	15.00	15.00
5600	GM	1576	25.00	25.00	25.00
5601	LB	5	10.00	2.00	4.00
5602	EA	153	18.00	4.75	9.13
5603	EA	373	18.00	8.00	10.50
5603	oz	2	18.00	18.00	18.00
5604	LB	1279	1.00	.10	.63
5605 5612	GL GL	<b>447</b> 5	4.14 .05	2.15 .05	2.89 .05
5612 6000	EA	300	3.39	1.00	2.49
6000	GL	13	8.60	1.85	6.89
6001	EA	42	5.20	5.00	5.06
6001	LB	112	5.00	.20	4.56
6002	EA	209	6.35	1.00	2.90

APPENDIX G - continued

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
6000	PT	. 1	11.00	11.00	11.00
6002 6003	EA	404	3.00	.72	1.30
6003	LB	2	11.00	11.00	11.00
6003	ΟZ	2	11.00	11.00	11.00
6003	WA <sup>2</sup>	1	1.00	1.00	1.00
6004	LB	10329	10.20	.20	1.13
6005	GL	380	6.00	1.26	2.98
6005	LB	327	.10	.10	.10
6006	LB	1700	.50	.50	.50
6007	${ t GL}$	260	.50	.50	.50
6007	LB	38836	.50	0.00	.37
6011	LB	10954	8.00	0.00	.57
6012	GL	393	3.56	1.85	2.49
6014	LB	9000	.50	.50	.50
6015	${ t GL}$	370	2.25	2.15	2.20
6019	LB	4600	. 45	. 45	. 45
6020	LB	33115	.40	.19	.24
6021	GL	165	2.15	2.15	2.15
6023	GL	152500	1.00	1.00	1.00
6026	GL	920	2.04	0.00	.71
6031	LB	25	.20	.20	.20
6033	LB	2597595	.31	.10	.17
6039	LB	400	.19	.19	.19
6049	LB	480	5.00	5.00	5.00 2.27
6053	GL	1597 320	3.00 4.00	.10 4.00	4.00
6054	LB GL	18	8.00	1.00	4.50
6055 6059	GL	15	2.09	2.09	2.09
6068	GL	13	3.00	3.00	3.00
6081	GL	75	2.00	2.00	2.00
6089	LB	73563	2.42	.20	. 49
6094	GL	110	2.75	2.75	2.75
6107	LB	200	.58	.58	.58
6114	LB	79200	.18	.18	.18
6810	LB	100	1.15	1.15	1.15
7000	LB	9758	. 67	.63	. 65
7000A	LB	8262	.99	.32	.41
7000A	LB	3	.37	.37	. 37
7000A	LB	4327	. 63	.59	. 60
7000A	LB	4575	. 60	. 60	. 60
7000A	LB	5280	.63	. 63	. 63
7001	LB	560	.58	.58	.58
7001A	LB	200	.53	.53	.53
7002	LB	136 2507	.48	. 45 . 52	.46 .52
7002A 7002A	LB LB	350	.52 .48	.48	. 48
7002A	LB	983	.45	.45	. 45
7002A	LB	200	.48	. 48	. 48
7004A	LB	400	.29	.29	.29
7004A	LB	750	.44	. 44	. 44
7007	LB	71862	. 67	.57	. 63
7007A	LB	25858	. 67	. 42	.48
7007A	LB	2718	.68	. 68	.68
7007A	LB	14220	.63	.59	. 60
7008	LB	53900	. 47	. 47	. 47
7009	LB	41	.68	.68	.68
				*	

<sup>\*</sup>WA = unknown code or unit.

APPENDIX G - continued

				Unit Cost, \$	
CLIN	Unit	Quantity	Maximum	Minimum	Average
				-	
7009A	LB	6610	.36	.36	.36
7010	LB	11387	.50	. 42	. 44
7010A	LB	1320	.52	.31	. 41
7010A	LB	13964	.50	.50	.50
7010A	LB	6280	. 45	. 45	. 45
70±0A	LB	7380	.48	.48	. 48
7011	LB	4720	.34	.34	.34
7012	LB	4635	.44	. 44	. 44
7012A	LB	500	. 32	.32	. 32
7012A	LB	13991	.50	.50	.50
7012A	LB	650	. 44	.44	. 44
7014	LB	2549	.43	.37	. 41
7014A	LB	3881	.99	. 47	. 95
7015	LB	5686	1.03	1.00	1.00
7015A	LB	3940	1.09	1.09	1.09
7015A	LB	2065	1.03	1.03	1.03
7015A	LB	810	1.00	1.00	1.00
7015A	LB	7011	1.03	1.03	1.03
7019	LB	4346	.50	.50	.50
7023A	LB	980	.53	.53	.53
7026	LB	150	.33	.33	.33
7026A	LB	1740	.29	.29	.29
7026A	LB	375	.33	.33	.33
7028	LB	11297	.60	.57	.58
7028A	LB	1047	. 60	.60	.60
7028A	LB	2360	.60	.60	. 60
7028A	LB	501	. 63	.63	.63
7029	LB	17210	.33	.33	.33
7030	LB	22283	.80	.72	.73
7030A	LB	350	.78	.78	.78
7031	LB	2764	.48	.39	.45
7031A	LB	2869	.43	.43	.43
7032	LB	2538	.33	.22	.24
7032A	LB	30	.31	.31	.31
7032A	LB	11520	.33	.33	.33
7036	LB	12500	.85	.85	.85
7036A	LB	1390	.85	.85	.85
7036A	LB	766	.85	.85	.85
7128	LB	1	. 60	.60	.60
7128A	LB	168	.60	.60	.60
7131	LB	3	.40		
7131A	LB	3284	.45	. 40 . 45	. 40
	~~	3404	. 43	.43	. 45

NOTE: DM = drum; EA - each; GL = gallon; LB = pounds; TN = ton; PT = pint; QT = quart; OZ= ounce; KT = kit, ML - millilter; KT - kit; ML - millilter; GM = gram.

## APPENDIX H:

## TSD FACILITY QUESTIONNAIRE

	Ir Co	ate of Contact:	//
General Information			
Address:			
Individual Contacted: Years in Business: Permits (Type & Permit No.):			
Waste Handling Facility No.: Last Yrs. Annual Sales: Other Locations:			
Distribution of Sales:	Private% Pu	blic%	
	Within public sector:	Federal % State % Local %	
Have you ever contracted with facility for HW TSD?	a Federal government	Yes	No
With whom:	<u> </u>		
End date of last contrac	t:(month/year)		

Have you ever bid on Army HW		No Because	
	DAPIGE		
Have you ever bid on DOD HW !	rsD? Yes	No Because	
	Explain:		
Would you bid on Army install Explain:			No
What services do you provide	? (Circle Appro	opriate Answers):	
Treatment Storage onsite onsite	Disposa	al Recycle	
onsite onsite offsite	onsit offs:	te onsite ite offsite	
HW Mgt. Broker	Transportation	n	
What is your facility's capa	city?	tons/day	
	Disposal Method	Disposal Limitatio	ns
Radioactive Wastes			
EPA Haz. Waste Types			······································
Type 1, Ignitable			
Type 2, Corrosive			
Type 3, Reactive			
Type 4, EP Toxic			
Type 5, Non-specific			
Type 6, Specific			

	Disposal Methods	Disposal Limitations
Type 7, Acute Haz.		
Type 8, Toxic		
Type 9, Used Oils		
Type 10, Unclassified		
Specific HWs	•	
Batteries and Battery Acids		
Compressed Gas Cylinders		
Corrosive Acids		
Corrosive Bases		
Paints and Paint Stripping		
Metal Plating/Metal Stripping	-	
Pesticides		
Photography Wastes		<u> </u>
PCBs		

		Disposal Methods	Disposal Limitation	<u>3</u>
PCPs				
Used Oil				
Contaminated F	uel			
Solvents - Halogenate	ed			
- Non-halog	enated			
Asbestos				
Hospital and La Wastes	aboratory			
Industrial Was Treatment Pla Sludges				
How do you hand	dle "mixed/com	oined" wastes?		
Area served?	States			
			1/4), if not entire	
Are you a wast	e transporter?		Yes	No
Any speci	al restriction	s?		·····
If no, wh	o do you recom	mend transport the	wastes? (Name and A	ddress)
	_		_	

Are there specific wastes you will not accept? Ye	s	No
Specify:	<del></del>	
Do you repackage wastes for customers? Ye	s	No
	s	No
Under what conditions?		<del></del>
For how many states do you have transport permits?		
For which states do you have HW transport permits?		
Do you accept empty/nearly empty containers (drums,		
bottles, cans, etc.)?	s	No
Do you typically have limits on quantities		
accepted in your contracts (minimum or maximum)? Yes	Quantity	
No		
Pricing Factors		
Indicate the significance of the following on unit HW pricing	:	
	<u>Major</u>	Minor
	1101	1111101
Waste quantity	<del></del>	
Type of waste		
Transportation distance	<del></del>	
Material Phase (solid, liquid, sludge)		
Size of Container (pint bottle, gallon can, 55 gal drum, etc.)	·	
Local regulations		
State regulations		·
Federal regulations		
Manner of packaging		
Condition of container		
Waste concentration		

What other factors do you consider in determining	price?
What is your rationale or criteria for pricing?	
If the client performs the following, is the price	ce reduced?
Waste analysis? Yes No	
Pretreatment? Yes No	
Labeling? Yes No	
How have prices generally changed for disposal?	
In the last 12 months? Increased%	
In the last 3 years? Increased%	
In the last 5 years? Increased%	Decreased%
Have prices for certain types of wastes increase	ed or decreased significantly
greater than the average? Yes Which type	of wastes
No	
Do you quote rates per waste unit quantity (i.e.,	\$/gal of
\$/1b of)?	Yes No
	<del></del>
Do you quote rates on waste containers separately	
from waste contents?	Yes No
Do you quote a fixed price for a waste "lot"?	Yes No
Do you subcontract out certain TSD operations?	
Transport? Yes No	
Storage? Yes No	
Disposal? Yes No	
Transport? Yes No	

-	es	<del></del>
W	hat is price	
Do rates vary with time of year?  Explain:		No
Do you make an inspection of wastes prior to quotatio Always Never Sometimes Under what conditions?	n:	
What percentage of time do you give quotes in writing What percentage of time do you give quotes verbally?		
For what percentage of your contracts do you write Request for Proposals/Quotes?	proposals i	n response to
Do you have a brochure or other document describing y services?  Copy requested Copy Provided	Yes _	No
Do you have a brochure or other document describing y prices?  Copy Requested Copy Provided	Yes _	No
Do you have a standard contract?  Copy requested Copy Provided	Yes	No
What type of contract do you prefer?		
What is the typical length of contract? Single Pick	<del>-</del>	<del></del>

APPENDIX I:
TSD FACILITY RESPONDENT LIST

Company Name	Address	Phone Number	Contact Name
Aptus	P.O. Box 550 Lakeville, MN 55044	(612) 469-3475	Mike Terrien
Aquatech-Grace Labs, Inc.	P.O. Box 816 Greer, SC 29652	(803) 877-1048	Greg Bowen
BDT (Battery Disposal Technology)	4255 Research Parkway Clarence, NY 14031	(716) 635-6794	Nancy Beebe
Broco, Inc.	2824 N. Locust Rialto, CA 92376	(714) 350-4701	Doug Smith
CECOS International	P.O. Box 3151 Houston, TX 77253	(713) 584-8846	Thomas Klos
Chemical Reclamation Services, Inc.	P.O. Box 69 Avalon, TX 76623	(214) 627-3243	Ron Eubanks
Chemical Resources, Inc.	2904 Fourth National Bank Building Tulsa, OK 74119	(918) 582-6994	John Hughes
Chemical Waste Mgmt. Kettleman Hill Fac.	35251 Old Skyline Rd. Kettleman City, CA 93239	(209) 386-9711	Al Temple
ECOFLO, Inc.	2750 Patterson Street Greensboro, NC 27407	(919) 855-7925	Chris Jubok
Envirosafe Services, of Idaho, Inc.	Missile Case Road 10-1/2 Miles NW of Grandview Grandview, ID 83624	(208) 384-1500	Neil Brill
GSX Government Services, Inc.	P.O. Box 140-902 S. Main Street Saukville, WI 53080	(414) 284-3427	Tom Manthey
Gibraltar Chemical Resources	Highway 155 P.O. Box 248 Winona, TX 75792	(214) 877-3227	Tom Grisham
Ind. Waste Utiliz. Inc.	5601 State Street Ontario, CA 91762	(714) 984-9984	David Alloy

Company Name	Address	Phone Number	Contact Name
JC Inc. & Chemical Tech Systems	3650 E. 26th Street Los Angeles, CA 90023	(213) 268-5056	Fred Cluff
LWD, Inc.	P.O. Box 327 Calvert City, KY 42029	(502) 395-8313	Kean McKinney
Malone Service Co.	P.O. Box 709 Texas City, TX 77592-0709	(409) 945-3301	Arthur Malone
Northwest Enviro Service, Inc.	1700 Airport Way S. Seattle, WA 98124	(206) 622-1090	Jim Wilson/ Joe O'Brien
OHM-Resource Recovery	P.O. Box 888 5371 Cook Road Morrow, GA 30260	(404) 361-6181	Dave Parker
Pacific Treatment Corporation	2190 Main Street San Diego, CA 92113	(619) 233-0424	Fred Holloway
Rollins Environ. Services, Inc.	2027 Battleground Rd. Deer Park, TX 77536	(713) 930-2300	Doug Walker
Special Resource Managament, Inc.	200 N. 4th Street Suite 206 Boise, ID 83702	(208) 345-3667	Patrick Stoll
Thermal KEAA, Inc.	454 S. Anderson Rd. Rock Hill, SC 29730	(803) 329-9690	Len Fiume
TRICIL Environmental Management, Inc.	3536 Fite Road Millington, TX 38053	(901) 358-5705	Carter Gray
U.S. Pollution Control, Inc.	Rural Route 2 Box 180A Waynoka, OK 73860	(405) 697-3237	Rex Kraft
UNITEK Environmental Services	2889 Mokumoa Street Honolulu, HI 96819	(808) 834-1444	Randy Harold
Why Wastewater? Inc.	3350 Doniphan Drive El Paso, TX 79922-1648	(915) 581-6602	Roger Chacon

#### APPENDIX J:

#### TSD FACILITY CONTRACTOR SURVEY RESULTS

#### Services Provided

The HW TSD facilities contacted during our survey appear to represent an industry cross section. Their diverse coverage of waste types and treatment and disposal techniques is illustrated in the list that follows. Those facilities that do not treat, store or dispose of certain wastes due to permit limitations, either will not contract for these wastes or subcontract out these wastes.

On site treatment and disposal operations carried out by survey list participants are extensive. A partial list includes the following operations:

- fuel blending
- neutralization
- detonation
- cylinder decommission
- · decanting
- · deep-well injection
- land disposal
- impoundment
- containerization.
- reclamation
- separation
- solidification
- thermal treatment
  - incineration
  - open burning
  - rotary kiln burning
  - fluid bed destruction
- · chemical treatment
  - reaction
  - stabilization
- filtration
  - ultrafiltration
  - reverse osmosismechanical
  - mechanical
- · carbon adsorption
- sewer discharge after pretreatment
- precipitation
- recycling
- repackaging
- volume reduction
- consolidation
- fixation

A high percentage of firms contacted either already have or have applied for

for radioactive, explosive and certain medical wastes. Only a few specialty firms handle these wastes.

Some of the companies surveyed have been or are currently DRMS contractors. Most seem flexible to contract terms and conditions and are generally willing to work with installations to write equitable contracting agreements. Some of the smaller TSD firms voiced apprehension at their ability to deal with the complex government paperwork, including proposal and contract requirements, special record keeping and detailed invoicing that they suspect may be required by the government.

#### Hazardous Waste Disposal Price Trends

TSD facility representatives were asked to comment on general pricing trends over the last year, 3 years and 5 years for the hazardous waste disposal industry as a whole. Over 96 percent of the firms surveyed said costs had increased. One of the foremost reasons given for the increase was more stringent Federal regulations for the pre-treatment of "hard hammer" wastes prior to disposal. "Hard hammer" wastes are defined as those which require mandated treatment prior to disposal by EPA regulation as part of RCRA. Other factors contractors stated has affected price were higher insurance premiums, higher landfill costs due to space limitations, and the higher cost associated with disposal of wastes such as cyanide waste, chlorinated solvents, "F" category wastes, sulfide wastes, dioxins, PCP's, radioactives, pyrophorics, infectious hospital wastes, fluoride wastes, heavy metal sludges, explosives, "no-home" wastes and land ban waste in general.

The average price increase estimate was 9.6 percent over the last 12 months. All firms surveyed were in agreement that prices had increased over the last three years. The estimated size of the increase was 53 percent. For the last five years the estimated price increase was 112 percent. One firm which specializes in solvent recycling reported a price decrease of 10 percent during the last five years. There have been significant technical advancements in solvent recycling during the last five years which account for the price reduction.

Moderation of price increases was reported for some wastes. Clean, blendable, burnable liquids are one such case. Incineration costs have also declined slightly due to improved burning technology. More stringent emission regulations and increased demand for incineration capacity could offset this and cause price increases in the future.

#### Pricing Factors and Cost-Saving Suggestions

Each survey participant was asked "What major factors do you consider when determining price?" Solvent recyclers and fuel blenders both noted that water content and the percent of solids found in waste fuels and solvents affect costs due to the necessity for additional dewatering and solid disposal steps. Contractors performing deep-well injection also noted higher costs associated with treatment and disposal of solids and other non-injectables.

Chemical and physical properties are important factors in price determination for HW disposal. Cost is highly dependent on whether wastes can be disposed of at the contractor's site or whether they must be transported to other facilities for disposal. One cost-saving measure suggested was to require contractors to have the capabilities to treat and dispose of waste at their own facility. Competitive procurements, careful bid analysis, together with tightly written, but fair requests for solicitations are important to overall cost savings.

Analysis time and laboratory fees contribute to pricing. While most firms have on-site laboratories or use the services of off-site certified labs for

waste analysis, testing costs are passed on to the client. It was noted that certified waste analysis by the client prior to acceptance by the TSD firm may reduce costs.

Additional areas such as unscheduled pickups, pickups of small quantities, frequent pickups and containers requiring repackaging increase cost.

Although most companies stated that they did not have a minimum cost per pickup, several did mention the impracticality of doing business for less than \$300-\$500 per "job". One plan offered by a fuel blending/solvent recycling contractor suggested the placement of a 350 gallon tank on site at installations for periodic pickup at a fixed fee no matter how full it was. This firm felt that this type of cooperation could alleviate costs associated with small inconvenient pickups to avoid violating EPA's mandated 90-day on-site storage limitation.

Several concerns voiced by smaller TSD contractors were (1) their potential inability to handle the volume of waste generated by large Army installations, (2) the diverse waste streams that are generated by Army installations, and (3) the problem of getting the installation to strictly segregate their wastes.

It was suggested that cost-saving measures, if implemented at Army installations prior to shipment of waste, could have significant effect on price. Suggestions included (1) pre-treatment of waste to consolidate/reduce waste volume, i.e., the fewer the number of drums the less handling and lower transportation costs, (2) pre-treatment to concentrate, i.e., high BTU fuels, oils and solvents require less treatment at the contractor site and are generally worth more to end users while low BTU wastes require costly blending, dewatering, etc., (3) prompt payment for services and (4) waste segregation.

#### Specific Factors Affecting Price

Factors affecting price were discussed with each respondent surveyed. All were asked to indicate the level of significance (major, moderate or minor) to the category's affect on price. Responses are expressed below as a percentage of the respondents and a brief explanation/analysis is given.

	PRICING SIGNIFICANCE		CANCE
	Major	Moderate	Minor
Waste Quantity	60%	12%	28%

Waste quantity was important, particularly to facilities with limited capacity due to RCRA part B permit restrictions. It was suggested that it may be in the Army's best interest to consider larger, more diversified TSD facilities with both multiple disposal and firmly established brokerage capabilities.

Type of Waste 96% 0% 4%

Nearly all TSD's surveyed stated that the type of waste was, by far, the single most significant factor in the determination of pricing.

Transport Distance 28% 16% 56%

The majority of those surveyed felt that the transportation distance was not necessarily significant due to the fact that many TSD's use brokered transportation and add the freight charges as a separate line item to invoices. Those companies that own or manage their own transportation fleet felt distance to be of moderate significance in overall price determination.

Material Phase 60% 20% 20%

(solid, liquid, sludge, etc.)

Potential brokering costs come into play for wastes that can not be handled by a TSD at their site, i.e., fuel blenders would find it necessary to dispose of the solids through a subcontractor because they have no means for on site disposal.

Container Size 40% 20% 40%

Container size, for the most part, was not a highly significant price factor except where repackaging or limitations in disposal came into play, i.e., small incinerator opening or limited landfill space available.

Local Regulations 8% 12% 80%

Only minor significance was placed on the local regulations. Most respondents said they hadn't encountered any local regulations.

State Regulations 40% 24% 36%

Pricing effects due to state regulations were mixed according to those surveyed with Texas, South Carolina, California, Kentucky, Wisconsin, Idaho and Washington noting major cost significance.

Federal Regulations 72% 12% 16%

Majority of those interviewed said Federal Regulations significantly effect pricing. Several respondents mentioned that pending land ban waste regulations may significantly increase disposal costs in 1990.

Manner of Packaging 36% 24% 40% Conditions of Container 36% 16% 48%

Opinion on these factors was mixed. Those who repackage for shipment to meet Department of Transportation (DOT) standards or to broker the material to others deemed these areas to have major pricing significance. Those who treat or dispose of waste on site felt these factors held moderate to minor significance unless original packaging precluded transport and disposal.

Waste Concentration 72% 12% 16%

The vast majority of those surveyed felt that waste stream concentration held major significance in pricing determination.

In summary, the categories surveyed and noted as having the greatest influence on pricing structure are (1) quantity of material, (2) the general type of wastes, (3) the physical and chemical properties of the waste, (4) Federal Regulations and (5) waste stream concentrations.

#### Surcharges

Surcharging is a common practice for the adjustment of pricing to cover costs of additional or special handling, unknowns and unapparent costs. Surcharges are often imposed by fuel blending TSDs, particularly for low BTU wastes or for waste with an unusually high chlorine content. Liquids processors such as fuel blenders and deep-well injectors often surcharge based on the percentage of solids found in the waste. High solid counts require special or additional disposal methods and, potentially, brokerage fees. Special toxicity problems spur surcharging to cover the cost of worker protective clothing, closed atmosphere breathing apparatus, sophisticated handling equipment, etc. Surcharges may be imposed for fast turnaround laboratory analysis. Unscheduled waste pickups often spur additional cost to the client. Out-of-specification wastes often are

a reason for surcharging. An example might be waste fuel with a significantly higher water content (lower BTU) than originally specified. It was mentioned that the best ways to avoid surcharge penalties are segregation of waste streams, pre-scheduling and pre-analysis.

#### Service Agreements

Most hazardous materials contractors initiate transport, handling, storage and disposal of generator wastes under some form of written agreement. This agreement has different titles including Service Agreement, Disposal Agreement, Waste Transportation Management Agreement and Hazardous Waste Services Agreement. Although the names are different, most are initiated to accomplish a similar goal which is to enter into a legally binding agreement spelling out the terms and conditions between contractor and client.

This survey included a cross section of TSD firms by size. The 14 Service Agreements (SA) received ranged from a one-page document to a 19-page document.

The majority of SAs referenced attachments in the form of schedules or exhibits. One exhibit generally contained waste material profiles or data concerning the waste type, concentration amount, etc. A second exhibit generally dealt with fee structure, taxes, tariffs and surcharge information.

Many similarities were observed between the SA's received, most containing clauses covering:

- Terms (payment)
- Contract period of performance
- Insurance (amount of coverage maintained)
- Cancellation
- Force Majeure (circumstances beyond control)
- Confidentiality
- Governing Law to Apply
- Title of Waste (who owns it and when)
- Independent Contractor (retention of all rights to company control)
- Notices Between Parties (must be in writing)
- Inspection Analysis Prior to Acceptance of Waste
- Indemnification

Statements of Warranty were included in about 85 percent of SAs. In general, the warranties were simple statements, three to four sentences in length, stating that the contractor:

- 1. Has the necessary business, professional and technical expertise to handle, store, transport, treat and dispose of waste materials.
  - 2. Has the equipment, plant and employee resources required to perform.
- 3. Has the ability to handle, store, transport, treat and dispose of waste materials in full compliance with all governmental laws and that it is licensed to do so.
- 4. Will notify the generator if any licenses, permits or authorizations are lost or in jeopardy of loss during the term of the agreement.

Two common indemnification clauses in SAs are:

1. Customer indemnification - generally stating that the contractor would be held harmless against any customer breach of contract, negligence or willful act or omission resulting in death or injury to person or damage to property and the environment.

2. Contractor indemnification - generally stating that the customer would be held harmless against loss from contractor failure to comply with federal, state or local laws and regulations and from any claim for loss or damage to property and person caused by negligence or willful act or omission by the contractor during handling, collection, transportation, storage or disposal of the waste.

A significant fundamental distinction observed between Army requirements and typical private sector contracts deals with the quotation of rates or fee schedule. Most of the waste contractors surveyed indicated that quotations are usually based on set quantities of specific wastes with final price determination after analysis of the waste. The DRMS, however, typically requests firm fixed rates for hundreds of different wastes, CLINs, based on their estimated total amount over the life of the contract. Some contractors expressed a reluctance to quote in such a manner, stating that the potential to lose money was greater if the actual waste amount was less than originally estimated.

The amount of documentation and general record keeping was seen as a potential hardship for a few smaller contractors because clerical staffing may be insufficient to handle Pick-up Reports, Certificates of Disposal, site visit and analysis notifications, segregation reports, audit trails, manifests, etc. as mandated in DRMS RFPs.

The preparation of detailed manifests and shipping documents was cited as a major difference in DRMS contracting and private sector contracts. The clients often assist in preparation of shipping documentation. It was noted that the price reduction to the Army could be significant if the Army prepared the manifests.

Most contractors were of the opinion that DRMS RFPs were complicated and that contracting with the government would require they have added services necessitating increased costs, staffing, etc. However, most waste contractors were interested in bidding on Army hazardous waste disposal contracts.

#### APPENDIX K:

# REPRESENTATIVE TSD FACILITY PRIVATE-SECTOR CONTRACTS

## Rollins Environmental Services (TX) Inc.

	Service Agreement	104(a)-86
	S SERVICE AGREEMENT, made and entered into as of the	•
	corporation, ("Company") and Rollins Environmental Services (ion ("RES").	TX) Inc., a Delaware
	EREAS, Company desires to contract for the hauling and disposal of cer- ng polychlorinated biphenyls ("PCBs"); and	tain waste material
WH herein.	EREAS, RES will provide such hauling and disposal service according to	the terms set forth
NO	W. THEREFORE, it is agreed:	
	FERM. Subject to the right of either party to terminate this Agreement at any sor written notice, this Agreement shall automatically terminate on	
	PAYMENT. RES shall invoice Company for the hauling and treatment of Wast forth on Schedule "B".	ste at the rates and

- 3. WARRANTY-RES. To comply with all existing laws, ordinances and regulations of the United States and of any state, county, township or municipal subdivision thereof, or other governmental agency which may be applicable to the removal of Waste, as well as the processing and/or treatment of the Waste. RES shall obtain all permits, licenses and other forms of documentation required in order to comply with such laws and regulations.
- 4. **RES INDEMNIFICATION.** Following loading and departure from Company's plant, Company shall be relieved of responsibility and RES shall become solely responsible for any and all loss, damage or injury to persons or property and RES shall indemnify and hold Company harmless from any and all liability, damages, costs, claims, demands, and expenses of whatever type or nature, including, but not limited to, pollution or other damage, which shall be caused by, arise out of, or in any manner be connected with the Waste, except as provided in COMPANY WARRANTS AND COMPANY INDEMNIFICATION below. Company understands and agrees that exposure to polychlorinated biphenyls ("PCBs") is perceived by all Federal, State and local regulatory protection and enforcement agencies to be of extreme danger to health and the environment.
- 5. COMPANY WARRANTS. Company represents and warrants that the Waste loaded and removed under this Agreement shall be the Waste defined on Schedule "A", attached hereto and made a part hereof, and has been thoroughly characterized on the waste data sheet submitted to RES. Company agrees to prepare and execute RES' waste data sheet for each shipment of Waste. If the Waste is packaged, Company warrants that such Waste shall be prepared for shipment and packaged in containers specified by 40 CFR Part 761.65-Storage for Disposal and by the then current and applicable regulations of the United States Department of Transportation, Environmental Protection Agency or any successors thereto and/or any state, municipal and/or Federal agency having jurisdiction, as the case may be. COMPANY IS HEREWITH NOTIFIED THAT IT MUST COMPLY WITH THE RELEVANT REQUIREMENTS OF 40 CFR PART 761. Company shall be responsible for loading packaged Waste on RES' trailers.

- 6. COMPANY INDEMNIFICATION. Company will indemnify and hold harmless RES from any and all loss, damages, including damage or undue wear and tear to equipment, claims, suits, or costs which shall arise or grow out of any injury to any person or persons or any property (including the person or property of Company or its employees) caused by or resulting in any way from Company's failure to comply with Company's Warranty concerning the Waste. Company shall be responsible for and indemnify RES against any and all liability, damages, costs, claims, demands, and expenses of whatever type or nature resulting from the acts and/or omissions of Company and/or its employees, until departure of RES vechicles from Company's plant.
- 7. TITLE. Following loading and departure from Company's plant, Company shall be relieved of title responsibility and risk of loss for the Waste, and RES shall take title, responsibility and risk of loss. However, title, risk of loss and all other incidents of ownership to non-conforming Waste shall be deemed to revest in the Company at the time revocation of acceptance is communicated to Company and RES shall only be responsible for its own negligence or willful acts.
- 8. RES REJECTION. Company understands and agrees that RES, upon notice to Company, has the absolute and unqualified right to reject any shipment of Waste which does not conform to the description on Schedule "A" (the "Waste Data Sheet") supplied by Company to RES. After any such rejection, RES will, with Company's assistance and approval, pursue all other reasonable means of disposal. If the Waste is rejected, Company shall be obligated (a) to pay the cost of transportation to RES' facility; (b) to pay the cost of return transportation from RES' facility to Company's premises; and (c) to pay all other reasonable charges incurred by RES with the prior consent of Company.
- 9. FORCE MAJEURE. Delays or failure of either party in the performance of its required obligations shall be excused if caused by circumstances beyond the reasonable control of the party affected, including but not limited to, acts of God, strikes, labor holiday, fire, flood, windstorm, explosion, riot, war, sabotage, action or request of governmental authority, accident, inability to obtain material, equipment or transportation, provided that a prompt notice of such delay is given and the parties shall be diligent in attempting to remove such cause(s).
- 10. INSURANCE. RES shall not begin any operations under this Agreement until: (a) it has obtained all the insurance required herein; and (b) it has furnished certificates of insurance to Company. Every certificate of insurance providing the coverages required herein shall contain the following clause: "No reduction, cancellation or expiration of the policy shall become effective until thirty (30) days from the date written notice thereof is actually received by Company."

RES shall take out and maintain for the life of this Agreement (at its own expense unless otherwise specifically set forth) at least the following insurance:

Coverage	Limits
Workmen's Compensation	Statutory
Employer's Liability	\$100,000 each occurrence
Public Liability (B1 & PD)	
Automobile Liability (B1 & PD)	

The public liability insurance shall include coverage for all RES' contractual liability under the Agreement with Limits of not less than those set forth above. Company agrees, however, that such public liability inssurance need not cover losses, damages, costs, and expenses arising out of bodily injury (including death) to any person or damage to any property caused by or resulting from acts or omissions of the Company, its employees or its agents.

11. **CONTAINERS.** The Waste shall be packaged in compliance with 40 CFR Part 761.65-**Storage for Disposal** with all required labeling and marking.

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## Rollins Environmental Services (TX) Inc.

This letter, upon receipt by Rollins Environmental Services (TX) Inc. ("RES"), of your acceptance	e, shall be the
agreement between RES and	("Company")
with respect to Waste (defined below), term, price and representations:	

WARRANTY-RES. To comply with all existing laws, ordinances and regulations of the United States and of any state, county, township or municipal subdivision thereof, or other governmental agency which may be applicable to the removal of Waste. RES shall obtain all permits, licenses and other forms of documentation required in order to comply with such laws and regulations.

RES INDEMNIFICATION. Following loading and departure from Company's plant, if RES provides transportation or, following delivery f.o.b. RES' facility, if Company provides transportation, Company shall be relieved of responsibility and RES shall become solely responsible for any and all loss, damage or injury to persons or property and RES shall indemnify and hold Company harmless from any and all liability, damages, costs, claims, demands, and expenses of whatever type or nature, including, but not limited to, pollution or other damage, which shall be caused by, arise out of, or in any manner be connected with the Waste, except as provided in COMPANY INDEMNIFICATION below.

COMPANY WARRANTS. Company represents and warrants that the Waste loaded and removed under this Agreement shall be the Waste defined on Schedule "A", attached hereto and made a part hereof, and has been thoroughly characterized on the waste data sheet submitted to RES. Company agrees to prepare and execute RES' waste data sheet for each shipment of Waste. If the Waste is packaged, Company warrants that such Waste shall be prepared for shipment and packaged in containers specified by the then current and applicable regulations of the United States Department of Transportation, Environmental Protection Agency or any successors thereto and/or any state, municipal and/or Federal agency having jurisdiction, as the case may be. Company shall be responsible for loading packaged Waste on RES' trailers if RES is providing transportation.

COMPANY IDEMNIFICATION. Company will indemnify and hold harmless RES from any and all loss, damages, including damage or undue wear and tear to equipment, claims, suits, or costs which shall arise or grow out of any injury to any person or persons or any property (including the person or property of Company or its employees) caused by or resulting in any way from Company's failure to comply with Company's Warranty concerning the Waste. Company shall be responsible for and indemnify RES against any and all liability, damages, costs, claims, demands, and expenses of whatever type or nature resulting from the acts and/or omissions of Company and/or its employees, until departure of RES vehicles from Company's plant, if RES provides transportation or, if Company provides transportation, until delivery f.o.b. RES' facility.

- 1. **TERM.** Subject to the right of either party to terminate this Agreement at any time upon thirty (30) days prior written notice, this Agreement shall automatically terminate on \_\_\_\_\_\_.
- 2.PAYMENT. RES shall invoice Company for the hauling and treatment of Waste at the rates and terms set forth on Schedule "A" attached hereto and made part hereof. RES shall add an amount equal to one and one-half percent  $(1\frac{1}{2}\%)$  or the maximum legally permissible amount to invoices which remain unpaid for more than thirty (30) days after date of invoice. Like charges may be made for each subsequent thirty (30) day period that such invoice remains unpaid.
- 3. **RES REJECTION.** Company understands and agrees that RES, upon notice to Company, has the absolute and unqualified right to reject any shipment of Waste which does not conform to the description of Schedule "A" (the "Waste Data Sheet") supplied by Company to RES. After any such rejection, RES will, with Company's assistance and approval, pursue all other reasonable means of disposal. If the Waste is rejected, Company shall be obligated (a) to pay the cost of transportation to RES' facility if such transportation was performed by RES, and (b) to pay the cost of return transportation from RES' facility to Company's premises (Company having the right to select the carrier) and (c) to pay all other reasonable charges incurred by RES with the prior consent of Company.

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- 4. TITLE Following loading and departure from Company's plant, if RES provides transportation or, following delivery f.o.b. RES' facility, if Company provides transportation, Company shall be relieved of title responsibility and risk of loss for the Waste, and RES shall take title, responsibility and risk of loss. However, title, risk of loss and all other incidents of ownership to non-conforming Waste shall be deemed to revest in the Company at the time revocation of acceptance is communicated to Company and RES shall only be responsible for its own negligence or willful acts.
- 5. FORCE MAJEURE. Delays or failure of either party in the performance of its required obligations shall be excused if caused by circumstances beyond the reasonable control of the party affected, including but not limited to, acts of God, strikes, labor holiday, fire, flood, windstorm, explosion, riot, war, sabotage, action or request of governmental authority, accident, inability to obtain material, equipment or transportation, provided that a prompt notice of such delay is given and the parties shall be diligent in attempting to remove such cause(s).
- 6. OSHA. Company represents and warrants that Waste does not contain the following substances in concentrations greater than those specified below:

2-acetylaminofluorene, Chemical Abstracts Service Registry No. 62759	1%
alpha-naphthylamine, Chemical Abstracts Service Registry No. 134327	1%
4-aminodiphenyl Chemical Abstracts Service Registry No. 92671	0.1%
benzidine, Chemical Abstracts Registry No. 92875	0.1%
beta-naphthylamine, Chemical Abstracts Service Registry No. 91598	0.1%
beta-propiolactone, Chemical Abstracts Service Registry No. 57578	1%
bis-chloromethyl ether, Chemical Abstracts Service Registry No. 542881	0.1%
3,3'-dichlorobenzidine. Chemical Abstracts Service Registry No. 91941, and its salts	1%
4-dimethylaminoazobenzene, Chemical Abstracts Service Registry No. 60117	1%
ethyleneimine, Chemical Abstracts Service Registry No. 151564	1%
methyl chloromethyl ether, Chemical Abstracts Service Registry No. 107302	0.1%
4,4'-methylene bis (2-chloroaniline), Chemical Abstracts Service Registry No. 101144	1%
4-nitrobiphenyl, Chemical Abstracts Service Registry No. 92933	0.1%
N-nitrosodimethylamine, Chemical Abstracts Service Registry No. 62759	1%
polychlorinated biphenyls	0.005%

Additions may be made by RES to the foregoing list of substances from time to time, such additions by RES becoming effective and binding after three days' written notice to Company.

Company agrees that all Waste containing asbestos (including actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite) fibers longer than 5 micrometers detectable by phase contrast microscopy shall be subject to the following conditions:

- a. The presence of asbestos in the Waste shall be clearly noted on RES' waste data sheet.
- b. Waste shall be packaged in closed steel drums bearing a label which conforms with 29 CFR 1910.1001.

Company further represents and warrants that, to the best of its knowledge, Waste does not contain vinyl chloride monomer in a liquid or gaseous form except as specified on RES' waste data sheet.

All previous representations, including but not limited to, proposal(s), purchase order(s) and/or invoice(s), either written or oral are hereby annulled and superseded. No modification shall be binding unless in writing and executed by RES and Company.

Please indicate your agreement to the above recitals by executing and returning a copy of this letter.

ACCEPTED this day of	. 19	ROLLINS ("RES")	ENVIRONMENTAL SERVICES (TX) INC.
(	"Company")		
,	,	BY:	
BY:			
		Address:	P.O. Box 609
Address:			Deer Park, Texas 77536

For RES:	
Rollins Environmental Services (TX) Inc. P.O. Box 609 Deer Park, TX 77536	
Attn: Sales Manager	
For Company:	
	ot limited to, proposal(s), purchase order(s) and/or and superseded. No modification shall be binding by.
Please indicate your agreement to the above re	ecitals by executing and returning this letter.
	Rollins Environmental Services (TX) Inc. ("RES")
	Rollins Environmental Services (TX) Inc. ("RES")  By:
	By: Address: P.O. Box 609, Deer Park, TX 77536
ACCEPTED THIS day of 19,	By: Address: P.O. Box 609, Deer Park, TX 77536
ACCEPTED THIS day of 19,	By: Address: P.O. Box 609, Deer Park, TX 77536
ACCEPTED THIS day of 19, ("Company") By:	By: Address: P.O. Box 609, Deer Park, TX 77536
ACCEPTED THIS day of 19, ("Company") By:	By: Address: P.O. Box 609, Deer Park, TX 77536

# UNIFORM TERMS AND CONDITIONS AGREEMENT

# FOR THE DISPOSAL OF INDUSTRIAL WASTE MATERIAL

	THIS AGREEMENT,	made and entered into as of the day of, 19	, by
and	between Envirosafe Service	es of Idaho, Inc., a Delaware corporation (hereinafter "Es	SII")
and	, a	_ corporation (hereinafter "Customer").	

#### WITNESSETH THAT

WHEREAS, Customer desires to dispose of certain Industrial Waste Material (defined below) generated at Customer's industrial facilities; and

WHEREAS, ESII possesses the requisite expertise, facilities and permits to render, in a safe and efficient manner, a disposal service for the disposition of such waste material; and

WHEREAS, the parties desire to set forth uniform terms and conditions under which the services set forth below shall be provided;

NOW, THEREFORE, in consideration of the premises and of the mutual covenants herein contained and intending to be legally bound hereby, the parties hereto agree as follows:

#### 1. **DEFINITIONS.**

a. "Waste Product Questionnaire" or "WPQ," shall mean the form provided by ESII to be completed by Customer which describes a particular waste stream and includes instructions for its acceptance for disposal attached hereto and incorporated by reference herein. More than one WPQ may be submitted by Customer to ESII for incorporation into

this Agreement (defined below). Each WPQ shall be numbered sequentially (e.g. "Exhibit A-1," "Exhibit A-2," "Exhibit A-3," etc).

- b. "Industrial Waste Material" shall mean the raw industrial waste material that is the subject of a particular WPQ.
- c. "Facility" shall mean the disposal site provided by ESII for the disposal of the Industrial Waste Material located at Grand View, Idaho.
- d. "Agreement" shall mean this Agreement for the Disposal of Industrial Waste Material, including all exhibits attached hereto and incorporated herein.
- e. "Uniform Terms and Conditions" shall mean the terms and conditions set forth herein and shall exclude terms and conditions set forth in exhibits incorporated into the Agreement.

### 2. CONTRACTING PROCEDURE.

- a. Customer shall submit to ESII a completed WPQ. Submission of a completed WPQ to ESII shall constitute Customer's request that ESII accept for disposal the Industrial Waste Material described therein.
- b. ESII shall indicate its approval of Customer's request and its agreement to dispose of the Industrial Waste Material described in the WPQ under the terms and conditions set forth herein, by returning a copy of the WPQ marked "Approved and Accepted" and signed by an authorized representative of ESII. Any WPQ so approved and signed by ESII shall be attached to and incorporated into this Agreement as Exhibit "A-1," "A-2," "A-3," etc. and made a part hereof as of the date and time of written approval of ESII. Upon such incorporation, the Uniform Terms and Conditions, including all warranties of Customer contained herein, shall apply to the subject WPQ. Any terms and conditions contained in any such WPQ which are inconsistent with the Uniform Terms and Conditions set forth herein shall be null and void and the Uniform Terms and Conditions shall control.

#### 3. **NO COMMITMENT.**

ESII offers no guarantee or commitment that it will handle any particular type of waste or any particular quantity of waste material upon receipt of a WPQ submitted by Customer.

#### 4. SCOPE OF ESII'S SERVICES.

ESII shall receive Industrial Waste Material delivered by Customer or its subcontractors at the Facility during normal business hours of the Facility, except for disposal Industrial Waste Material which conforms to the description thereof contained in the subject WPQ, and dispose of the Industrial Waste Material at the Facility. ESII shall supervise and direct the unloading of the Industrial Waste Material upon its arrival at the Facility.

## 5. <u>INSPECTION AND ACCEPTANCE</u>.

- a. Prior to or upon arrival at the Facility and prior to acceptance of the Industrial Waste Material by ESII, ESII, in accordance with accepted practices and procedures:
  - (i) shall have the right to sample and analyze each shipment, including each container, of the Industrial Waste Material in order to establish its conformity with the subject WPQ, and
  - (ii) shall measure the quantity of Industrial Waste Material contained in each shipment in order to calculate the disposal fee.
- b. Nothing herein shall require ESII to perform an exhaustive analysis of the Industrial Waste Material in order to identify each and every constituent or contaminant contained in the Industrial Waste Material, nor shall any such sampling, analysis or measurement relieve Customer of its responsibility for the conformance of the Industrial Waste Material with the specifications set forth in the subject WPQ.
- c. Subject to this Section 6, if the analytical results obtained by ESII conform to the specifications set forth in the WPQ, ESII shall accept the Industrial Waste Material,

together with all responsibility and liability in connection therewith, and title shall pass to ESII upon ESII's acceptance of the Industrial Waste Material at the Facility.

- d. If the analytical results obtained by ESII indicate that the Industrial Waste Material is non-conforming, ESII shall promptly notify Customer of the following:
  - (i) the existence of the non-conformity; and
  - if the non-conforming Industrial Waste Material can be handled by ESII at the Facility, the additional cost of disposal resulting from such non-conformity; and
  - (iii) whether such non-conforming Industrial Waste Material unacceptable for disposal at the Facility.
- e. For purposes of this Agreement, the Industrial Waste Material shall be deemed to be materially non-conforming if:
  - (i) disposal of the Industrial Waste Material at the Facility will result in a violation of law, rule or regulation or a permit condition; or
  - (ii) if analysis of the Industrial Waste Material indicates the existence of material deviations from the specifications, limitations and instructions set forth in the WPQ or constituents or physical characteristics not permitted by the terms of the WPQ which would increase the hazard, risk or costs assumed by ESII in connection with its performance hereunder.
- f. Prior to commingling and interment of the Industrial Waste Material, ESII shall have the right to reject Industrial Waste Material which, in ESII's sole opinion and judgement, is materially non-conforming.
- g. Rejected Industrial Waste Material shall be promptly returned to the point of origin as set forth on the manifest, in which event all reloading costs, all transportation costs, to and from the Facility, and any demurrage charges shall be for Customer's account.

- h. If non-conforming Industrial Waste Material can be handled by ESII at the Facility, but at additional cost to Customer, ESII shall not proceed to dispose of such non-conforming Industrial Waste Material until ESII has notified Customer that the Industrial Waste is non-conforming and has provided Customer with the cost of disposing of non-conforming waste and Customer has authorized ESII to proceed with disposal at the new cost. However, if such authorization is not received either orally or in writing within three (3) hours after the notice of non-conformance has been communicated by telephone, ESII reserves the right to immediately reject such non-conforming Industrial Waste Material and such non-conforming Industrial Waste Material shall be promptly returned to the point of origin as set forth on the manifest. In the event of such rejection, all loading costs, all transportation costs to and from the Facility, and any demurrage charges incurred, while awaiting such authorization shall be for Customer's account. Customer's oral authority to proceed with disposal shall be immediately confirmed in writing by Customer, but the failure to do so shall not impair the effectiveness of the oral authority.
- i. Upon ESII's rejection of non-conforming Industrial Waste Material, title to the rejected Industrial Waste Material, together with all responsibility and liability in connection therewith, shall be deemed to revest in Customer.

# 6. <u>COMPENSATION</u>.

For the services performed hereunder, Customer shall pay ESII at the rates and in accordance with the payment terms set forth in Exhibit "B," attached hereto and incorporated herein (the "Compensation Schedule"). ESII shall invoice Customer for all charges which

accrue pursuant to this Agreement within twenty (20) days from the date the Industrial Waste Material was received and disposed of at the Facility. Customer shall pay ESII's invoice within thirty (30) days from the date of the invoice. Customer shall pay ESII interest on overdue balances at the rate of 1.5% per month.

# 7. ADJUSTMENTS TO COMPENSATION.

- a. The parties agree that, if at any time after the date of execution of this Agreement, any governmental entity or court shall adopt, issue or promulgate any law, order, rule, regulation, guide-line, notice, tax, charge, fee, assessment, and/or directive of any nature which requires ESII to make additional expenditures in plant or equipment and/or incur additional costs in connection with its performance of services hereunder, the compensation rates set forth in the Compensation Schedule, including escalation, if any shall be subject to increase at the sole discretion of ESII. ESII shall deliver written notice of such rate increase to Customer at least thirty (30) days prior to the effective date of such increase and such notice shall include:
  - (i) a statement indicating the amount of the increase; and
  - (ii) the effective date of the increase.
- b. At any time during the thirty (30) day notice period preceding a rate increase Customer may notify ESII in writing of the unacceptability of such rate increase. Thereupon, either party hereto shall have the right to terminate this Agreement without penalty or further liability upon fifteen (15) days prior written notice of the intent to terminate. The announced rate increase shall be ineffective in the event of such termination.

# 8. WARRANTIES OF ESII.

ESII expressly warrants:

- a. That 's' possesses the business, professional and technical expertise to handle, process and dispose of the Industrial Waste Material; and
- b. That is possesses the equipment, plant and employee resources to perform this Agreement, and
- c. That it has obtained and shall maintain during the term of this Agreement all permits, approval and licenses required to handle and dispose of industrial wastes, including the Industrial Waste Material.
- d. THE EXPRESS WARRANTIES OF ESII SET FORTH IN THIS SECTION ARE EXCLUSIVE AND ALL OTHER WARRANTIES OF ANY KIND, WHETHER WRITTEN, ORAL, EXPRESS, STATUTORY OR IMPLIES (WHETHER ARISING UNDER LAW OR EQUITY OR CUSTOM OF USAGE), INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED FROM THIS AGREEMENT.

## 9. WARRANTIES OF CUSTOMER.

Customer expressly warrants:

a. That, notwithstanding the sampling and analysis performed by ESII, the Industrial Waste Material delivered to and accepted by ESII shall conform to the description thereof contained in the applicable WPQ; and

- b. That Customer is not prohibited by any federal, state and local law, rule or regulation from transferring exclusive possession and control of the Industrial Waste Material to ESII; and
- c. That Customer has obtained and shall maintain in completed form during the term of this Agreement all permits, licenses, manifests or approvals required by any federal, state or local law, rule or regulation required for the delivery by Customer of the Industrial Waste Material for disposal at the Facility, and required to otherwise carry out its obligations under this Agreement; and
- d. That the Industrial Waste Material shall be prepared for shipment, packaged and labeled in containers specified by applicable rules and regulations of the U.S. Department of Transportation, the U.S. Environmental Protection Agency or any successors thereto and/any federal, state or local agency with regulatory jurisdiction, as the case may be; and
- e. THE EXPRESS WARRANTIES OF CUSTOMER SET FORTH IN THIS SECTION ARE EXCLUSIVE AND ALL OTHER WARRANTIES OF ANY KIND, WHETHER WRITTEN, ORAL, EXPRESS, STATUTORY OR IMPLIED (WHETHER ARISING UNDER LAW OR EQUITY OR CUSTOM OF USAGE), INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED FROM THIS AGREEMENT.

#### 10. COMPLIANCE WITH LAWS.

a. ESII shall comply with all applicable laws, ordinances, decisions, orders, rules and regulations of the United States and of any state, county, or local government, or any other governmental agency with regulatory jurisdiction, including without limitation, any laws

pertaining to the handling and disposal of the Industrial Waste Material. Customer shall use its best efforts to provide all necessary information to assist ESII to obtain and maintain all permits and consents required by any governmental agency having or asserting jurisdiction over the Facility or the services to be performed hereunder.

b. Customer shall comply with all applicable laws, ordinances, decisions, orders, rules and regulations of the United States and its agencies and of any state, county, or local government or other governmental agency with regulatory jurisdiction, including without limitation, any laws pertaining to the generation, transportation, handling and disposal of the Industrial Waste Material.

## 11. FORCE MAJEURE.

Any delays in or failure of performance of either party hereto shall not constitute a default under this Agreement or give rise to any claim for damages to the extent such delays or failure of performance are caused by circumstances beyond the reasonable control of the party thereby affected, including but not limited to, acts of God, fire, flood, windstorm, explosion, accidents, riot, sabotage, strikes or other concerted work stoppages of labor, lockouts, inability to obtain raw material, equipment or transportation, or the compliance with any generic order or request of any governmental authority, loss of any necessary utility (water, electricity, gas, etc.) or the revocation of any permit issued by any governmental agency which is required for the party's performance hereunder. In the event a force majeure condition arises which wholly or in part prevents either party hereto from performing hereunder, the affected party shall inform the other in writing within fifteen (15) working days

from the commencement of the force majeure condition; provided such notice is given, the obligation affected by a force majeure condition shall be automatically extended for a time equal to the delay caused by the intervention of such force majeure condition. Notwithstanding anything herein contained to the contrary, in no event shall the term of this Agreement as set forth in Section 16 hereof be extended by reason of the operation of this section.

## 12. INSURANCE.

a. ESII shall maintain for the term of this Agreement (at its own expense unless otherwise specifically set forth) the following insurance:

COVERAGE	LIMITS OF LIABILITY
Workers Compensation	Statutory
Employer's Liability	\$100,000 each occurrence
Comprehensive General Liability (Bodily Injury & Property Damage)	\$2,000,000 combined single limit \$4,000,000 aggregate
Comprehensive Automobile Liability (Bodily Injury & Property Damage)	\$2,000,000 combined single limit
Environmental Impairment	\$3,000,000 each occurrence
Liability for Sudden and Non-Sudden Occurrences	\$6,000,000 annual aggregate

b. Customer shall maintain for the term of this Agreement (at its own expense unless otherwise specifically set forth) the following insurance:

**COVERAGE** 

**LIMITS OF LIABILITY** 

Workers Compensation

Statutory

Employer's Liability

\$100,000 each occurrence

Comprehensive General Liability (Bodily Injury & Property Damage \$2,000,000 combined

single limit

Comprehensive Automobile

Liability (Bodily Injury & Property Damage)

\$2,000,000 combined

single limit

# c. Additional Insurance Provisions

(i) Each party shall furnish to the other party certificates of insurance evidencing the insurance coverages as above required. Every certificate of insurance required herein shall be endorsed to provide the other party with thirty (30) days written notice of cancellation.

(ii) The respective Comprehensive General Liability insurance shall include an endorsement covering such party's contractual liability with limits not less than those set forth above.

# 13. THIRD PARTY LIABILITY INDEMNIFICATION BY ESII.

a. ESII shall indemnify, defend and hold harmless Customer and its employees, officers, agents and subcontractors from and against all liability, claims, suits, losses, damages, costs and demands, including legal expenses and attorney's fees connected therewith, on account of personal injury, including death, or property damage, sustained by any person or entity not a party to this Agreement, arising out of or connected with the

performance of the Agreement where such injury, death, or damage is caused by the willful misconduct or the sole or contributory negligence of ESII or its subcontractors; provided that such injury, death or damage is not occasioned by the sole negligence of Customer or its agents, subcontractors, employees or officers; and provided further, that ESII's liability under this indemnity provision shall be limited to and not exceed the insurance coverage and limits of liability which ESII secured pursuant to Section 12 hereof.

- b. In the event that any claim made by a third party for damage to property or persons results from the joint negligence of ESII, its employees, officers, agents and subcontractors and Customer, generator or its employees, officers, agents or subcontractors, then ESII shall indemnify and save harmless Customer and its employees, officers, agents and subcontractors for, but only for, that percentage of any resulting claims or judgment directly attributable to the negligence of ESII, its employees, officers, agents and subcontractors. ESII shall be reimbursed by Customer for the percentage of reasonable legal fees and legal expenses (including court costs) in direct proportion to the percentage of the claims or judgment directly attributable to the contributory negligence of Customer, or its employees, officers, agents and subcontractors.
- c. The foregoing indemnification obligation of ESII is conditioned upon ESII's prompt receipt of notice of any claims brought by third parties against Broker or its employees, officers, agents and subcontractors and Broker's good faith cooperation with ESII in the defense of such claims.

## 14. <u>INDEMNIFICATION BY CUSTOMER.</u>

- a. Customer shall indemnify and hold harmless ESII and its employees, officers, agents and subcontractors from and against all liability, claims, suits, losses, damages, fines, penalties or costs, including legal expenses and attorney's fees connected therewith, on account of personal injury, including death, or property damage, including but not limited to damage to the Facility, contamination of or adverse effects on the environment, or any violation or alleged violation of statutes, rules or regulation of any governmental agency, caused by or resulting from the negligent acts or omissions or willful misconduct of Customer or its subcontractors, employees, officers and agents in the performance of this Agreement or Customer's breach of any obligation or warranty of this Agreement.
- b. In the event that any claim made by a third party for damage of property or persons results from the joint negligence of Customer, its employees, officers, agents or subcontractors and ESII, and its employees, officers, agents or subcontractors, then Customer shall indemnify and save harmless ESII and its employees, officers, agents and sub-contractors for, but only for that percentage of any damages, claims or judgment directly attributable to the negligence of Customer, or its employees, officers, agents and subcontractors. Customer shall be reimbursed by ESII for the percentage of reasonable legal fees and legal expenses (including court costs) in direct proportion to the percentage of the damages, claims or judgment directly attributable to the contributory negligence of ESII, its employees, officers, agents and subcontractors.

c. The foregoing indemnification obligation of Customer is conditioned upon Customer's prompt receipt of notice of any claims brought by third parties against ESII or its employees, officers, agents and subcontractors and ESII's good faith cooperation with Customer in the defense of such claims.

# 15. <u>TERM OF AGREEMENT</u>.

Unless sooner terminated, this Agreement shall be effective for a period of one (1) year from the date of execution hereof and shall automatically renew for successive one year periods unless terminated in writing by either party upon thirty (30) days notice prior to the anniversary date hereof. Expiration or termination of this Agreement, for any cause, shall not relieve Customer of liability for payment of sums due or to become due ESII for service performed hereunder prior to the effective date of expiration or termination.

# 16. <u>TERMINATION FOR CONVENIENCE</u>.

Either party hereto shall have the right to terminate this Agreement for convenience without penalty at any time, upon giving sixty (60) days prior written notice of such termination to the other party.

# 17. CUSTOMER'S RIGHT TO TERMINATE FOR DEFAULT.

a. In the event that ESII shall file a petition in bankruptcy, or shall make a general assignment for the benefit of its creditors, or if a petition in bankruptcy shall be filed against ESII or a receiver appointed on account of its insolvency, or if it shall default in the performance of any express obligation to be performed by it under this Agreement and shall

fail to correct such default (or if immediate correction is not possible, shall fail to commence and diligently continue effective action to correct the default), within ten (10) days following receipt of written notice thereof from Customer, Customer may, without prejudice to any other rights or remedies Customer may have, cause further payments to ESII to be held in abeyance and terminate this Agreement by written notice to ESII specifying the date of termination.

b. A waiver by Customer of any one default of ESII shall not be considered to be a waiver of any subsequent default of ESII, nor be deemed to amend or modify the terms of this Agreement.

# 18. <u>ESII'S RIGHT TO TERMINATE FOR DEFAULT</u>.

a. In the event that Customer shall file a petition in bankruptcy, or shall make a general assignment for the benefit of its creditors, or if a petition in bankruptcy shall be filed against Customer or a receiver appointed on account of its insolvency, or if it shall default in the performance of any express obligation to be performed by it under this Agreement and shall fail to correct such default (or if immediate correction is not possible with respect to any default other than a monetary default, shall fail to commence and diligently continue effective action to correct the default) within ten (10) days following receipt of written notice thereof from ESII, ESII may, without prejudice to any other rights or remedies ESII may have, terminate this Agreement by written notice to Customer specifying the date of termination.

- b. With respect only to breach of Customer's warranties as set forth in Section 9, ESII may, regardless of any corrective action taken or to be undertaken by Customer, and at ESII's sole election, terminate this Agreement forthwith, without prejudice to any other rights or remedies ESII may have, by delivering written notice of such termination to Customer, if five (5) percent or more (by weight) of the Industrial Waste Material received from Customer during the first full calendar year quarterly period of the term of this Agreement or any succeeding calendar year quarterly period thereafter does not conform to Customer's warranties as set forth in Section 9, and as a result of non-conformance, the Industrial Waste Material was not disposed of at the Facility.
- c. The waiver by ESII of any one default of Customer shall not be considered to be a waiver of any subsequent default of Customer, nor be deemed to amend or modify the terms of this Agreement.

#### 19. ASSIGNMENT.

Customer shall not assign, sublet, transfer, nor convey this Agreement or any monies due or to become due to it hereunder without prior consent of ESII, and any attempt to so assign and sublet shall be void.

## 20. <u>INDEPENDENT CONTRACTOR</u>.

a. ESII is and shall be an independent contractor in the performance of the services covered by this Agreement maintaining complete control of its employees and operations. Neither ESII nor anyone employed by ESII shall be the agent, representative,

employee or servant of Customer in the performance of the services covered by this

Agreement.

b. Customer is and shall be an independent contractor hereunder, and

acknowledges that this Agreement does not constitute Customer the agent or legal

representative of ESII for any purpose whatsoever. Customer is not granted any right or

authority to assume or to create any obligation or responsibility express or implied on behalf

of or in the name of ESII or to bind ESII in any manner whatsoever.

21. NOTICES.

All notices, requests, demands and other communications hereunder shall be in writing or by

telephone. All written notice required hereunder shall be given either by personal delivery,

by mailing by United States Registered or Certified Mail, return receipt requested, postage

prepaid, or by other documented communication properly addressed as follows, or to such

other addresses as either party may designate in accordance herewith:

If to Customer:

If to ESII:

Envirosafe Services of Idaho, Inc. 2710 Sunrise Rim Road, Suite 100 P.O. Box 16217

Boise, Idaho 83705

Attention: Vice President and

General Manager

Notices shall be deemed to be given upon delivery or, if mailed, upon the receipt thereof by the party concerned.

# 22. <u>MISCELLANEOUS</u>.

- a. This Agreement shall be construed and governed in accordance with the substantive laws of the State of Idaho excluding choice of law rules. This Agreement constitutes the entire agreement between ESII and Customer. All previous representations relative thereto either written or oral, are hereby annulled and superseded. No modification shall be binding on ESII unless it shall be in writing and signed by an authorized officer. Paragraph headings are for the convenience of the parties only and are not to be construed as part of this Agreement. The warranties contained herein shall survive the expiration or termination of this Agreement, and shall not be impaired or rendered inoperative by any investigation thereof.
- b. If any provision contained herein is held to be unenforceable by a court of law or equity, this Agreement shall be construed as if such provision did not exist, and the unenforceability of such provision shall not be held to render any other provision of this Agreement unenforceable.
- c. Customer may use its standard business forms (such as purchase orders, acknowledgements or vouchers) to administer this Agreement, but use of such forms shall be for convenience purposes only and all provisions, terms and conditions contained in or

on such forms (except those provisions specifying quantity of Industrial Waste Material being disposed of and the dates of delivery and disposal related thereto) shall be deemed stricken and null and void.

IN WITNESS WHEREOF, ESII and Customer have each caused this Agreement to be executed by its duly authorized representatives as of the day and year set forth above.

	Envirosafe Services of Idaho, Inc.
, (Customer)	
Signature	Signature
Name	Name
Title	Title
Date	

#### ABBREVIATIONS AND ACRONYMS

AMC U.S. Army Materiel Command

CDD complete discharge device

CLIN contract line item number

CONUS Continental United States

DDD dichlorodiphenyldichloroethane

DDE dichlorodiphenyldichloroethylene

DODAAC Department of Defense Activity Address Code

DRMO Defense Reutilization and Marketing Office

DRMS Defense Reutilization and Marketing Service

EP extraction procedure

FORSCOM U.S. Army Forces Command

FY fiscal year

HM hazardous material

HW hazardous waste

IDMS Integrated Disposal Management System

MACOMs Major Commands

MSCs Major Subordinate Commands

PCB polychlorinated biphenyls

PCP pentachlorophenol

POLs petroleum, oils, and lubricants

PPM parts per million

RCRA Resource Conservation and Recovery Act

RFPs Requests for Proposals

RTDS Reutilization, Transfer, Donation, and Sales

SA service agreement

STB super tropical bleach

TRADOC U.S. Army Training and Doctrine Command

TSD treatment, storage, and disposal

USACE U.S. Army Corps of Engineers

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